

Title: METHOD OF DETERMINING MOVEMENT SEQUENCE, ALIGNMENT APPARATUS, METHOD AND APPARATUS OF DESIGNING OPTICAL SYSTEM, AND MEDIUM IN WHICH PROGRAM REALIZING THE DESIGNING METHOD
 Inventor(s): Koji YOSHIDA, et al
 DOCKET NO.: 061807-0137

Fig. 1

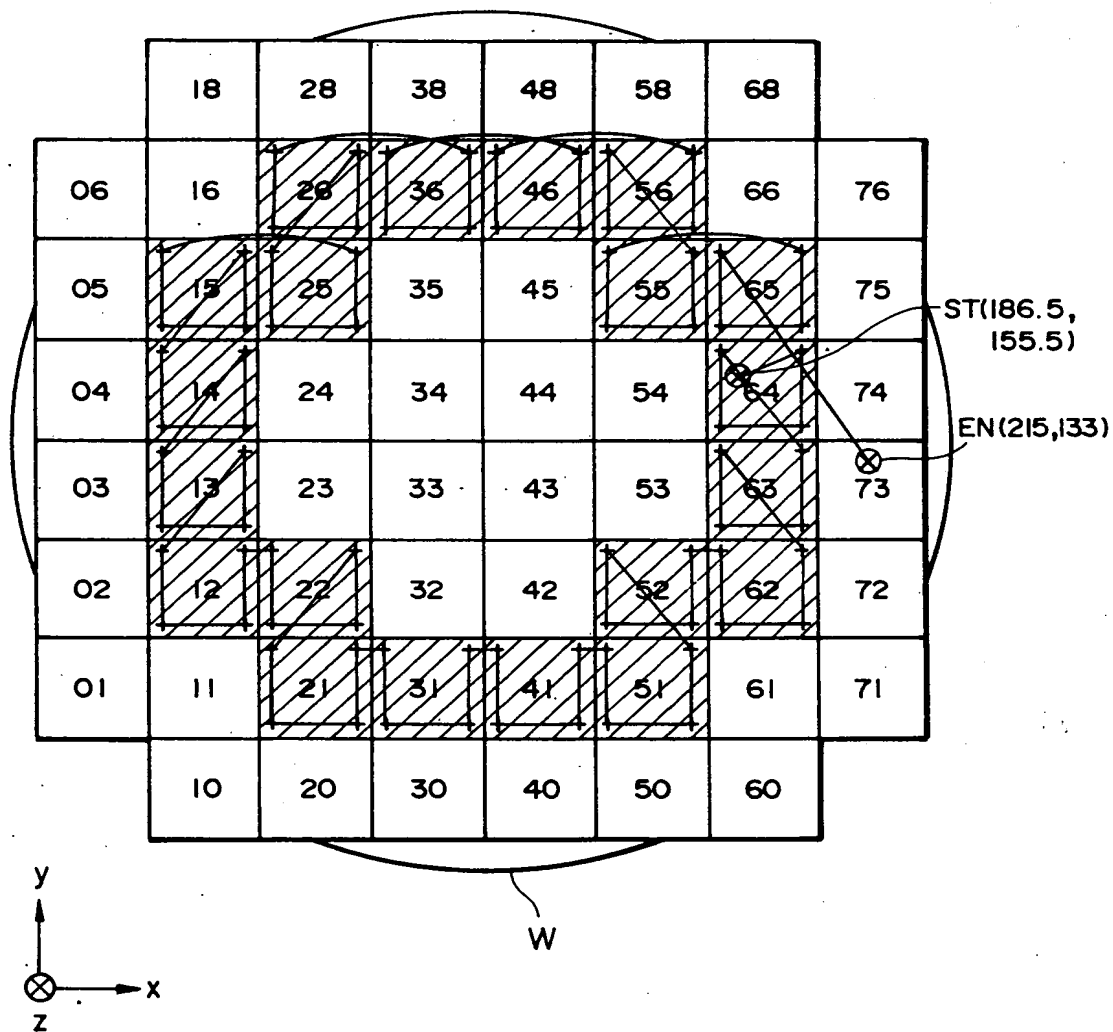
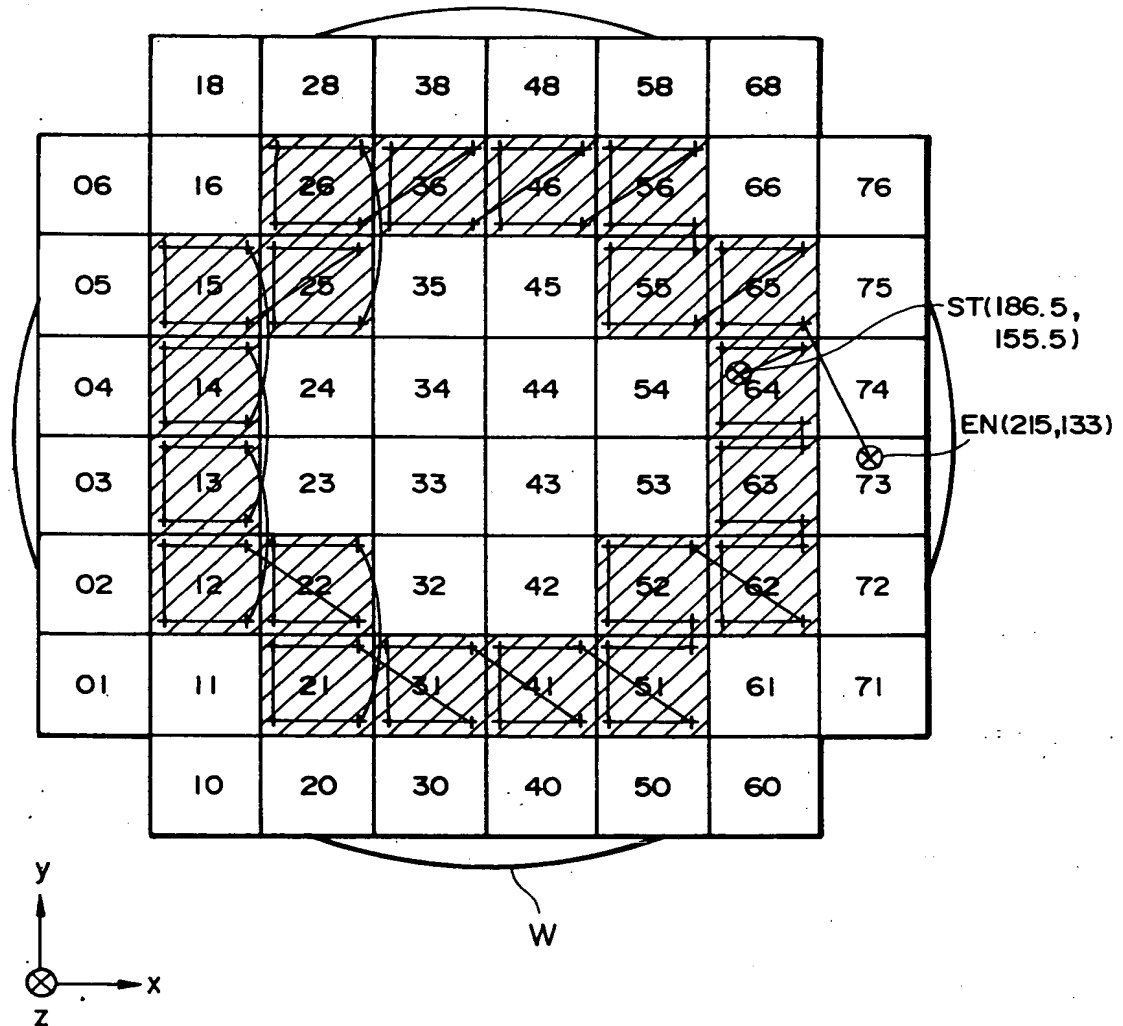


Fig. 2



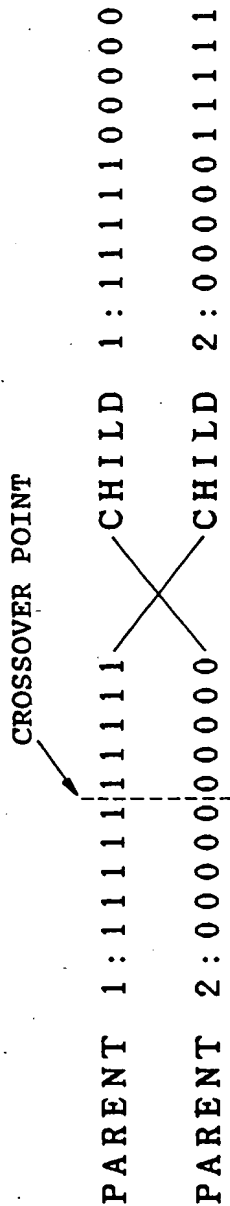


Fig.3

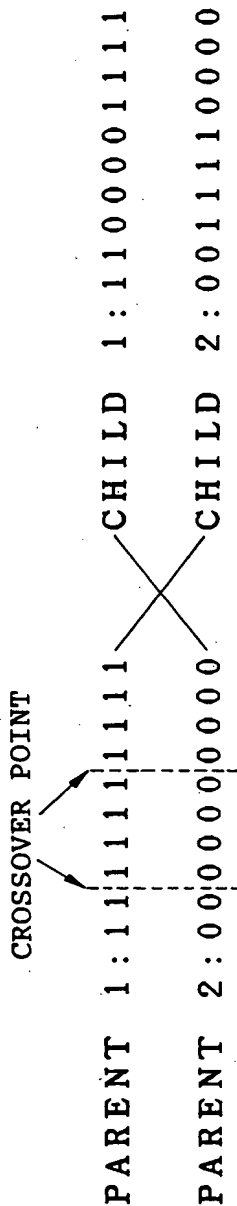


Fig.4

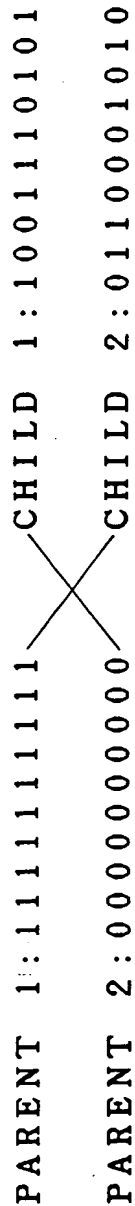


Fig.5

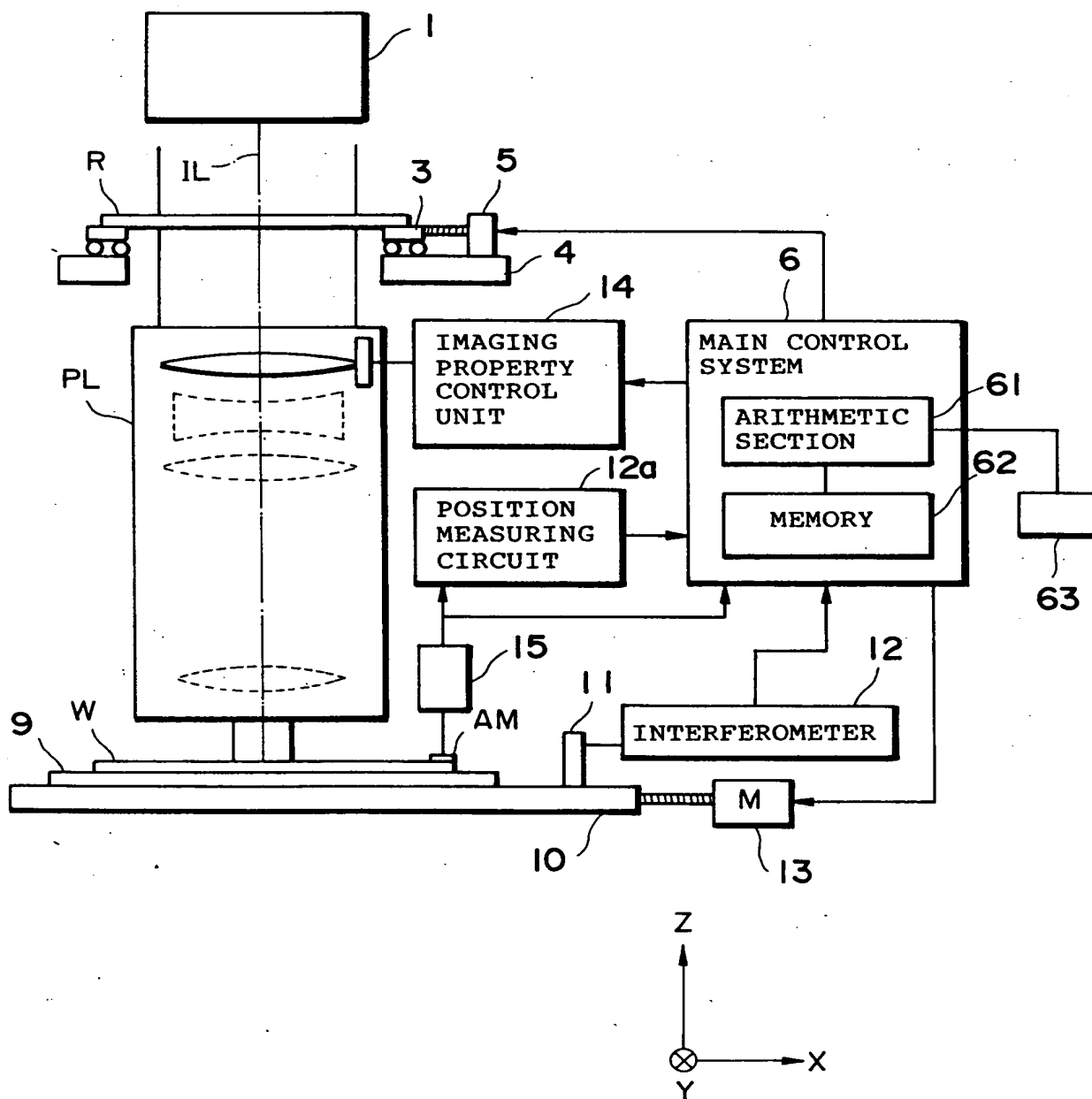
[illegible]

Fig. 7

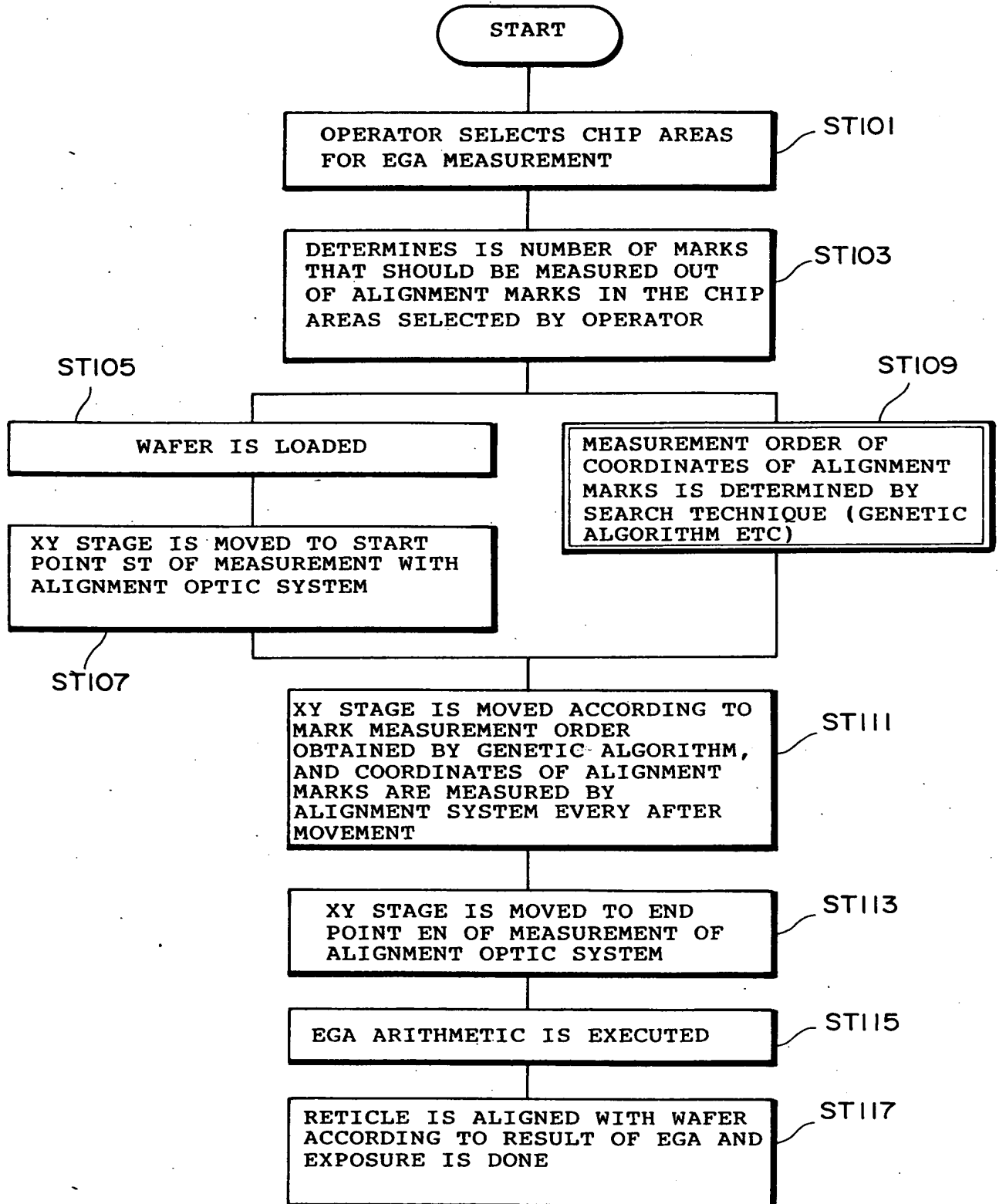


Fig. 8

ATTRIBUTE		VALUE OF PARAMETER SET IN EMBODIMENT
START POINT ST	X	186.5 (mm)
	Y	155.5 (mm)
END POINT EN	X	215 (mm)
	Y	133 (mm)
ACCELERATION OF WAFER STAGE 10	X	0.34 g
	Y	0.2 g
MAX SPEED OF WAFER STAGE 10	X	270 (mm/sec)
	Y	200 (mm/sec)
SETTLING TIME OF WAFER STAGE		0.032 (sec)
TIME NECESSARY FOR MEASURING COORDINATES OF ONE ALIGNMENT MARK		0.5 (sec)

g: ACCELERATION OF GRAVITY (=9.80m/sec)

Fig. 9

CHIP AREA	COORDINATES OF CENTER	CHIP AREA	COORDINATES OF CENTER
12	(83, 105)	41	(149, 83)
13	(83, 127)	46	(149, 193)
14	(83, 149)	51	(171, 83)
15	(83, 171)	52	(171, 105)
21	(105, 83)	55	(171, 171)
22	(105, 105)	56	(171, 193)
25	(105, 171)	62	(193, 105)
26	(105, 193)	63	(193, 127)
31	(127, 83)	64	(193, 149)
36	(127, 193)	65	(193, 171)

FIG. 10

START	12(1)	12(2)	12(3)	12(4)	13(1)	13(2)
12(1)	0.378296	X	0.109449	0.132981	0.142	0.142
12(2)	0.45237	X	0.132981	0.132981	0.142	0.142
12(3)	0.45237	0.132981	X	0.109449	0.242	0.242
12(4)	0.378296	0.132981	0.109449	X	0.242	0.242
13(1)	0.378296	0.142	0.242	0.242	X	0.109449
13(2)	0.45237	0.142	0.242	0.242	0.109449	X
...
64(3)	0.123721	0.36533	0.439407	0.365333	0.365333	0.439407
64(4)	0.123721	0.439407	0.513481	0.439407	0.439407	0.513481
65(1)	0.1595	0.439407	0.513481	0.462	0.439407	0.513481
65(2)	0.1595	0.36533	0.439407	0.462	0.365333	0.439407
65(3)	0.084955	0.36533	0.439407	0.365333	0.365333	0.439407
65(4)	0.102346	0.439407	0.513481	0.439407	0.439407	0.513481
END	X	0.483852	0.557926	0.483852	0.483852	0.557926

(UNIT: SEC)						
64(3)	64(4)	65(1)	65(2)	65(3)	65(4)	
0.365333	0.439407	0.439307	0.365333	0.365333	0.439407	
0.439407	0.513481	0.513481	0.439407	0.439407	0.513481	
0.439407	0.513481	0.513481	0.462	0.439407	0.513481	
0.365333	0.439407	0.462	0.462	0.365333	0.439407	
0.365333	0.439407	0.439407	0.365333	0.365333	0.439407	
0.439407	0.513481	0.513481	0.439407	0.439407	0.513481	
...
X	0.109449	0.242	0.242	0.242	0.142	0.142
0.109449	X	0.242	0.242	0.242	0.142	0.142
0.242	0.242	0.242	0.109449	0.132981	0.132981	0.132981
0.242	0.242	0.109449	X	0.132981	0.132981	0.132981
0.142	0.142	0.132981	0.132981	X	0.109449	0.109449
0.142	0.142	0.132981	0.132981	0.132981	0.109449	X
0.150519	0.091892	0.272	0.272	0.172	0.172	0.172

Fig. 10

Fig. 11

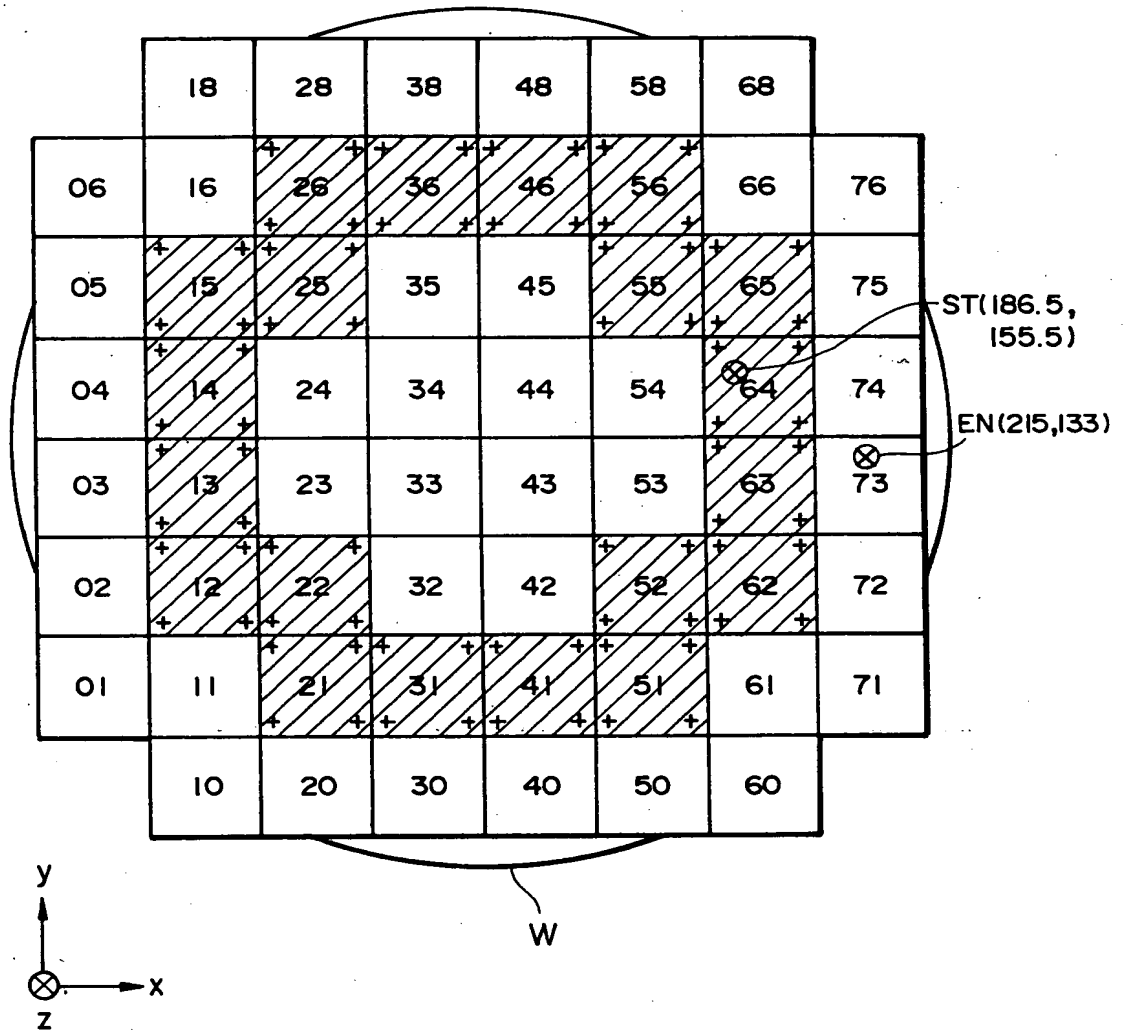


Fig. 12

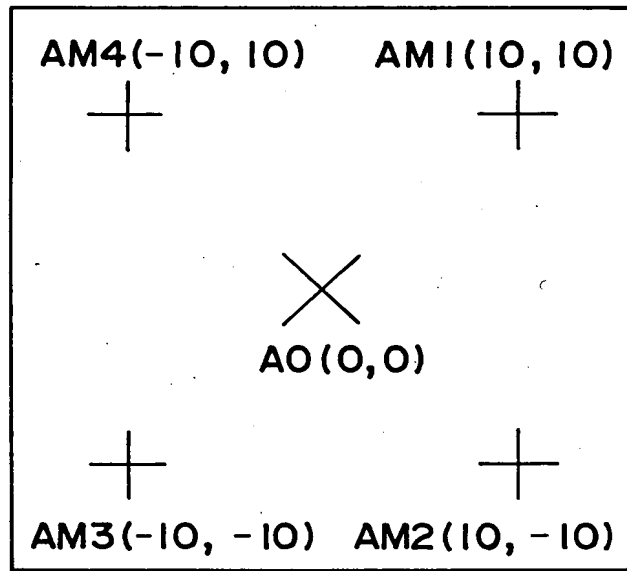


Fig. 13

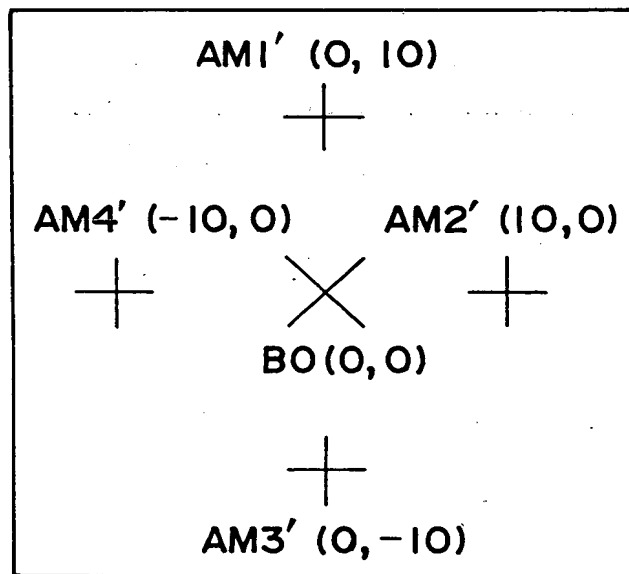


Fig. 14

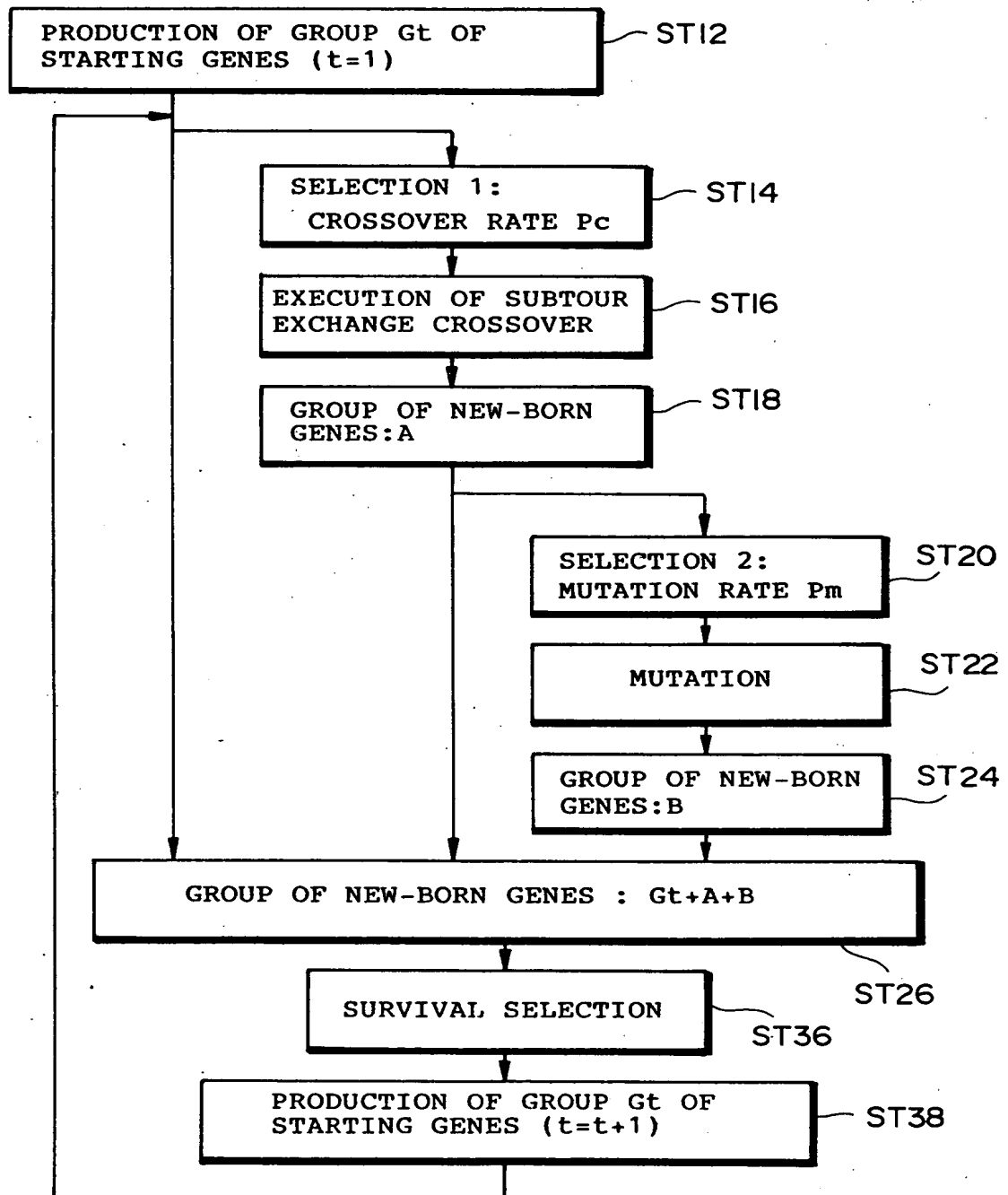


Fig. 15

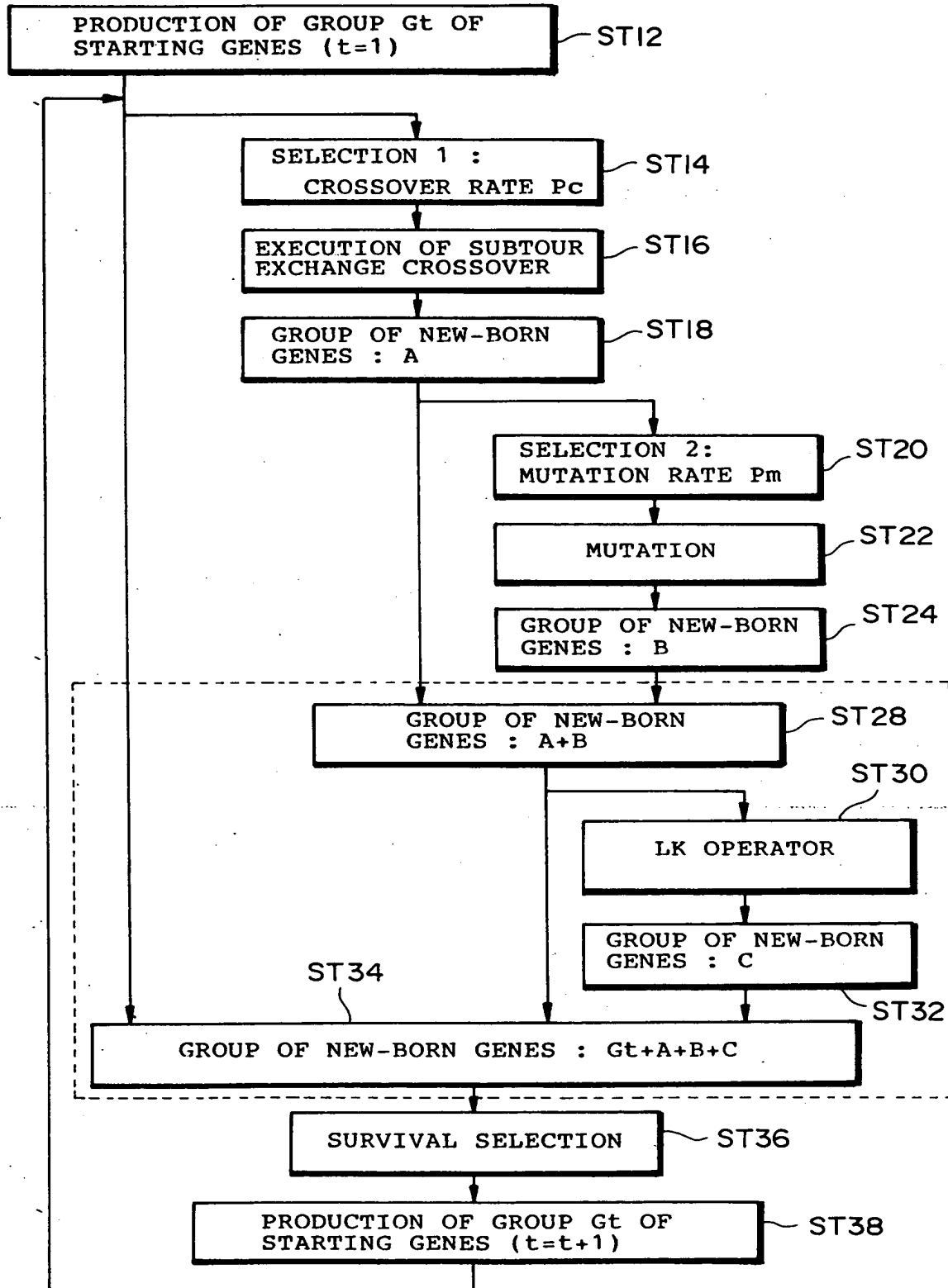


Fig. 16

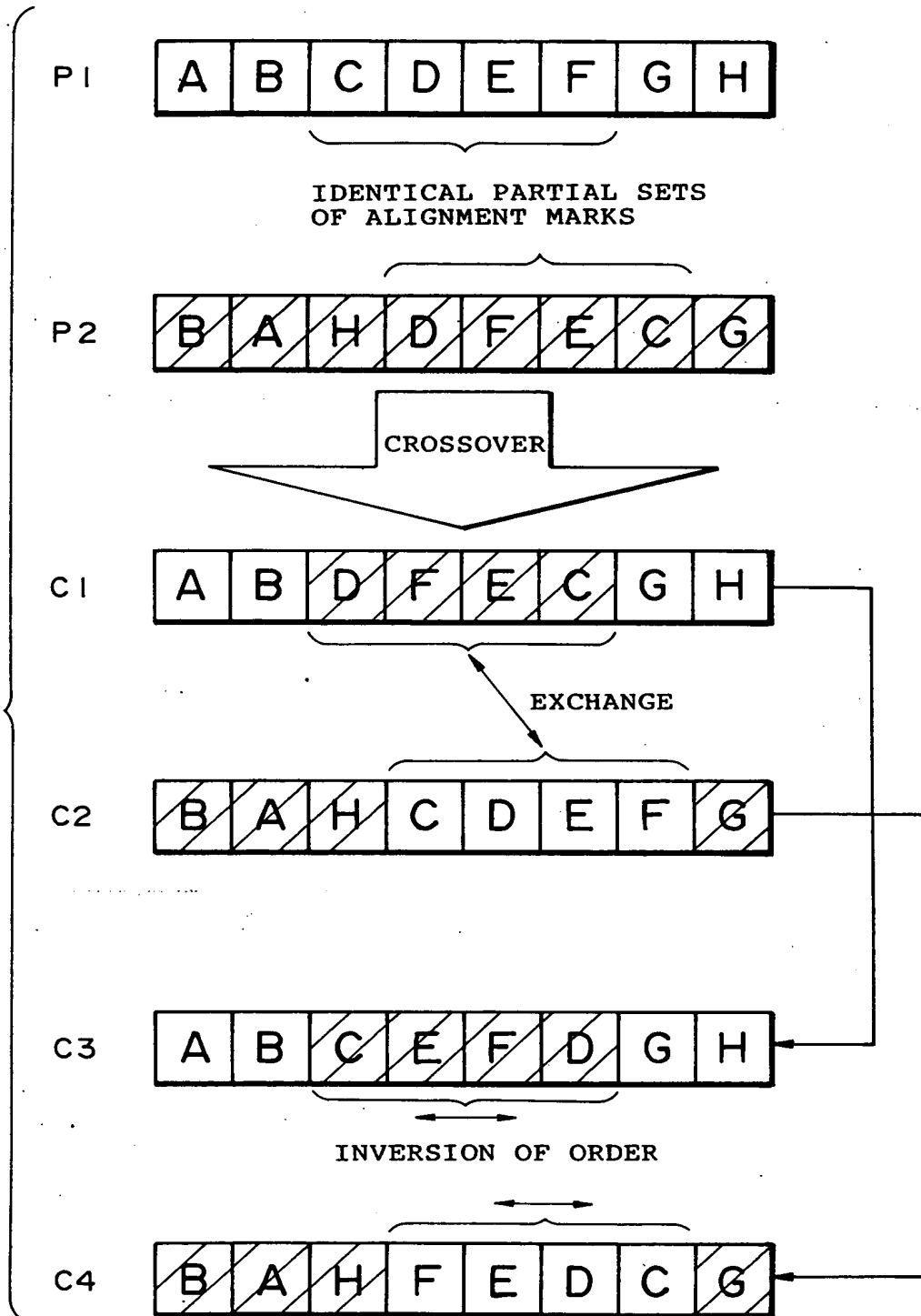


Fig. 17

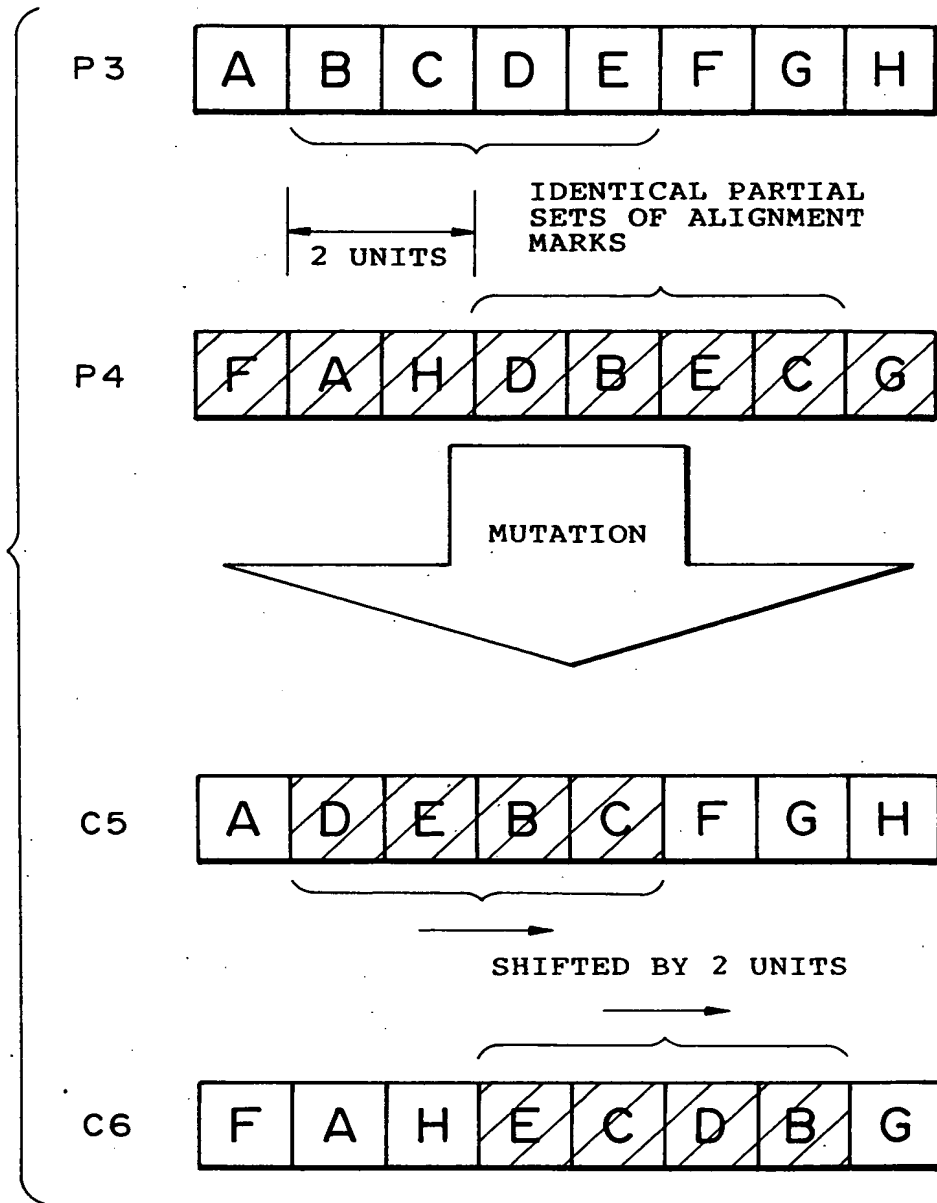


FIG. 17

Fig. 18

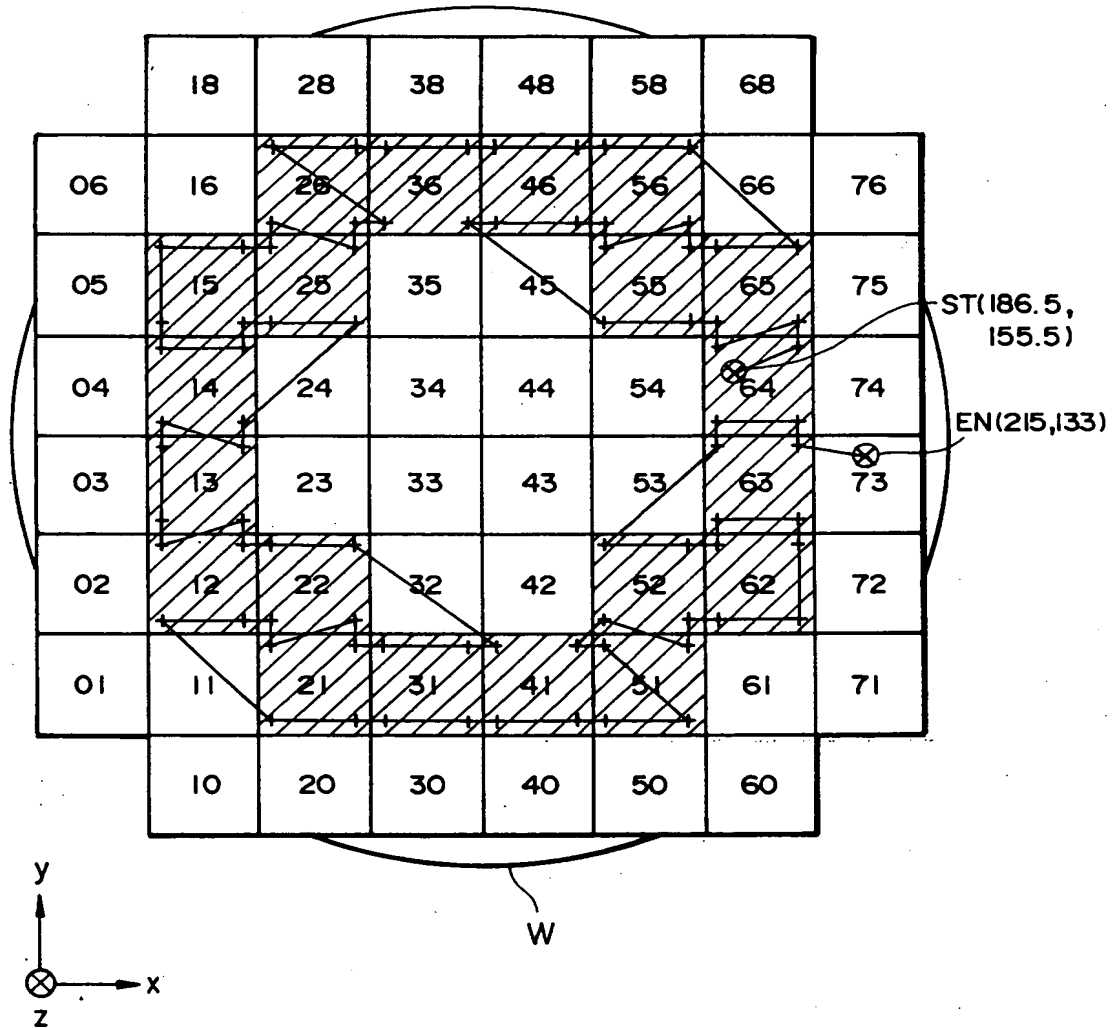


Fig. 19

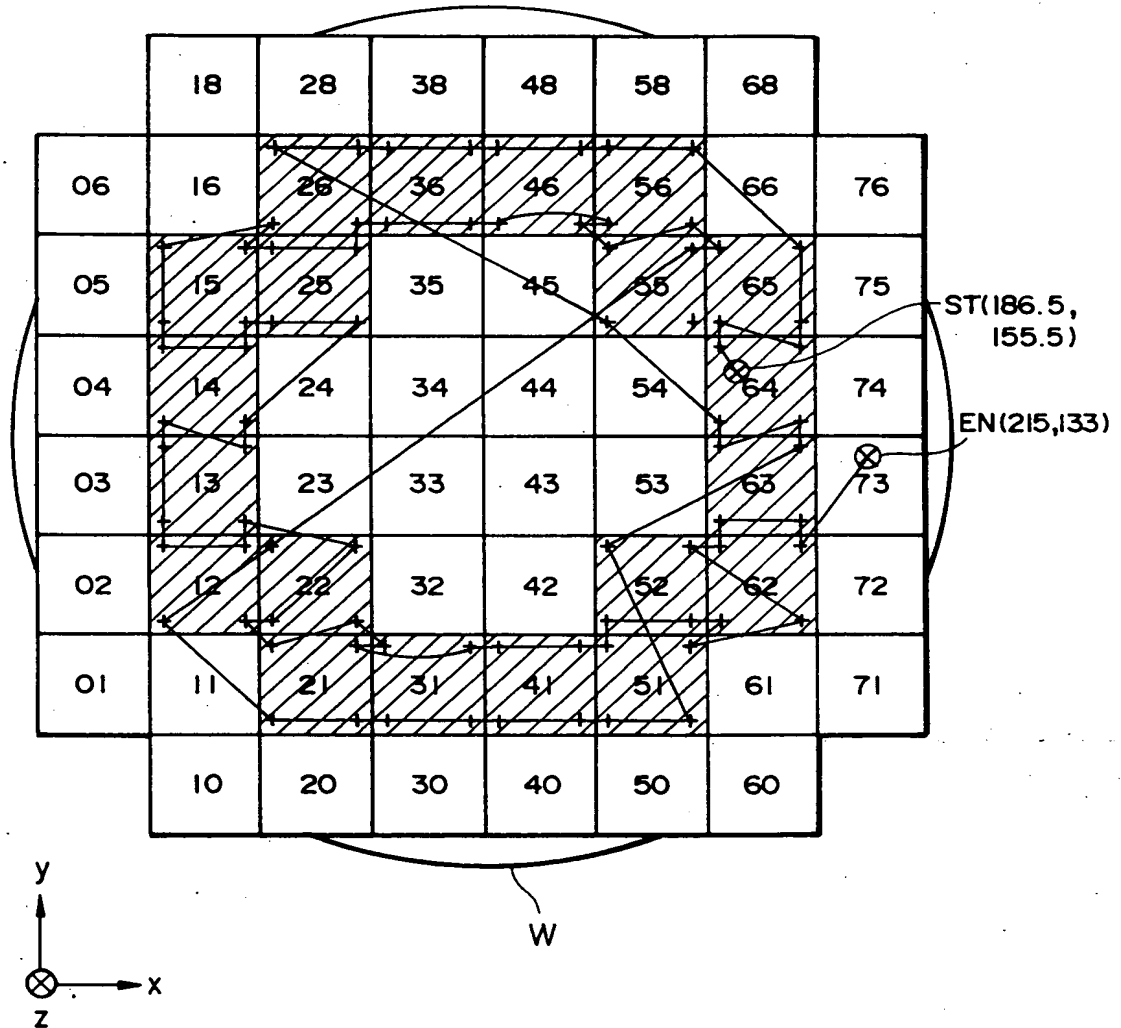


Fig.20

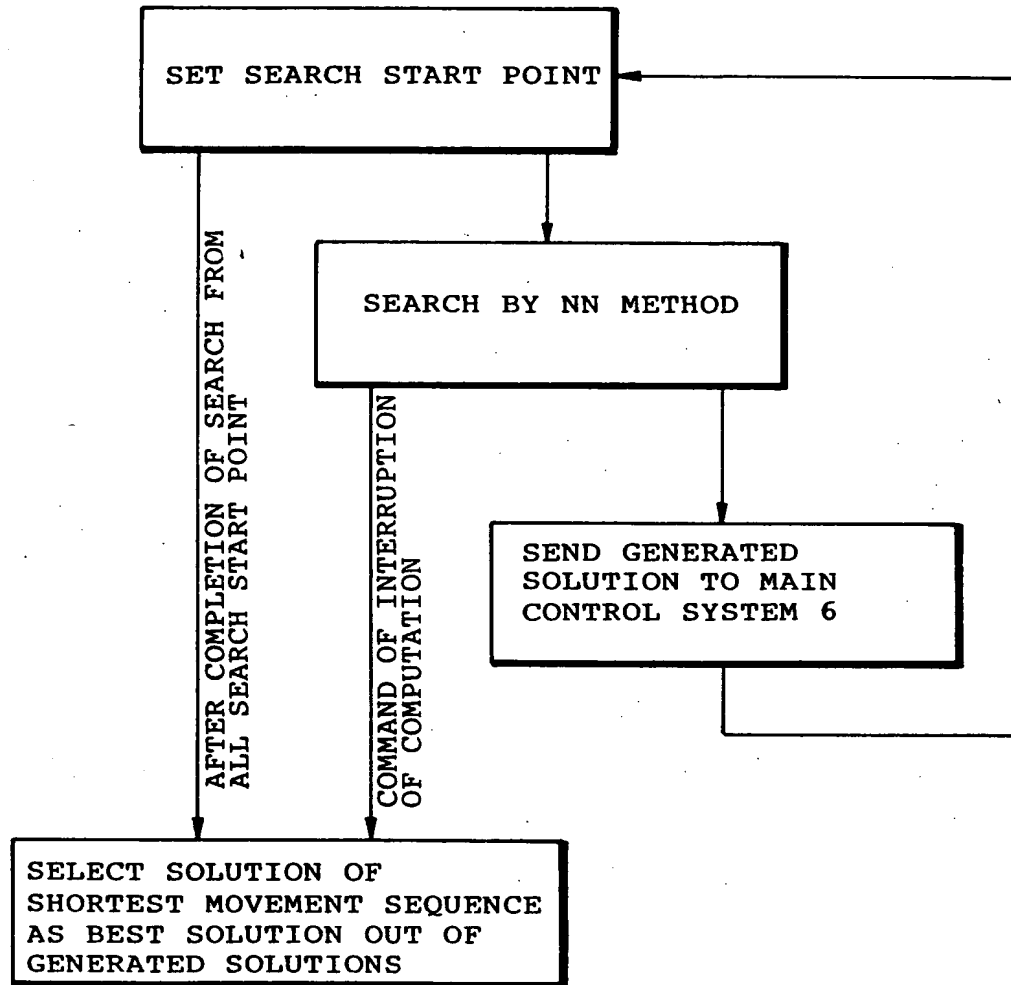


FIG. 20

Fig.21

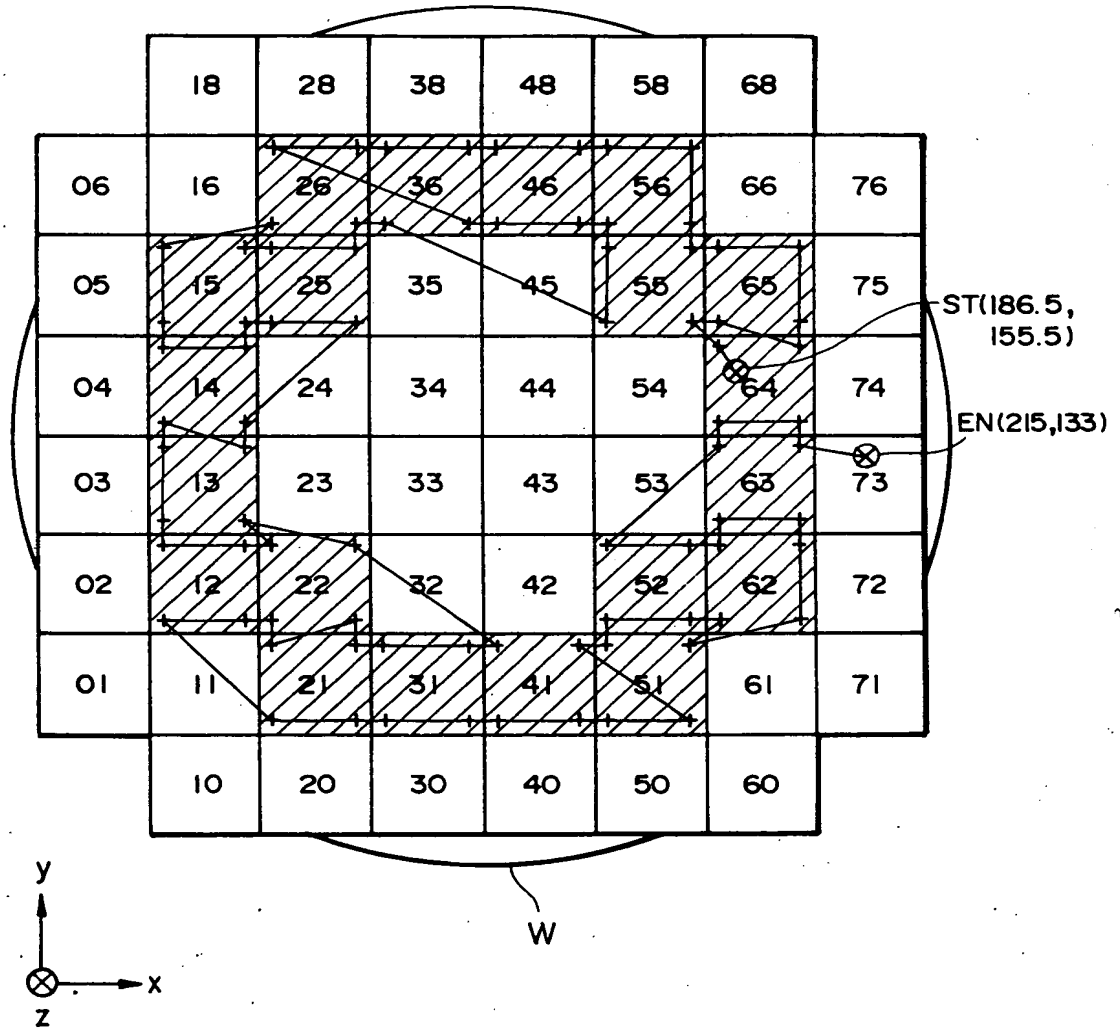


Fig.22

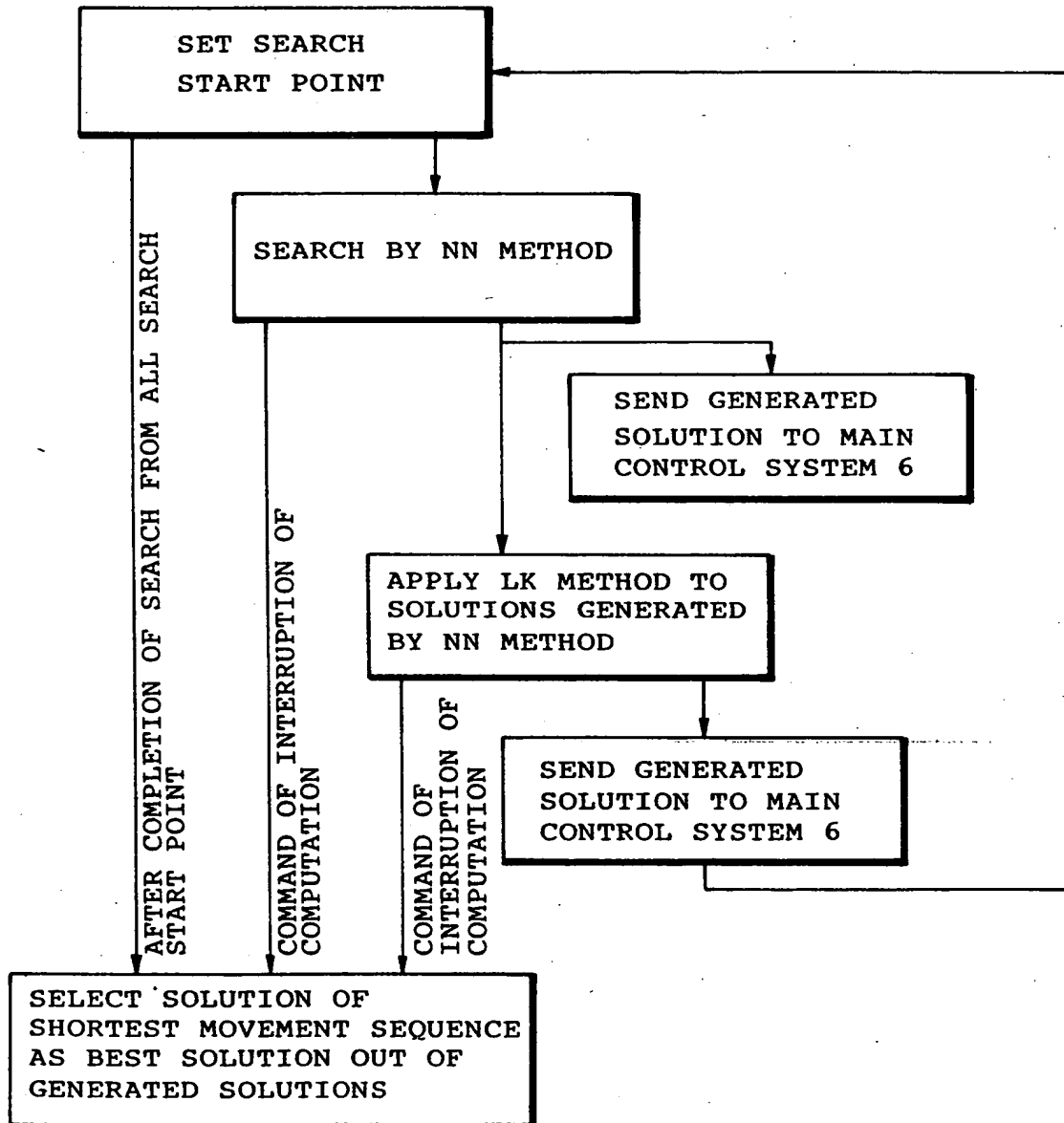


FIG. 22

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Fig.23

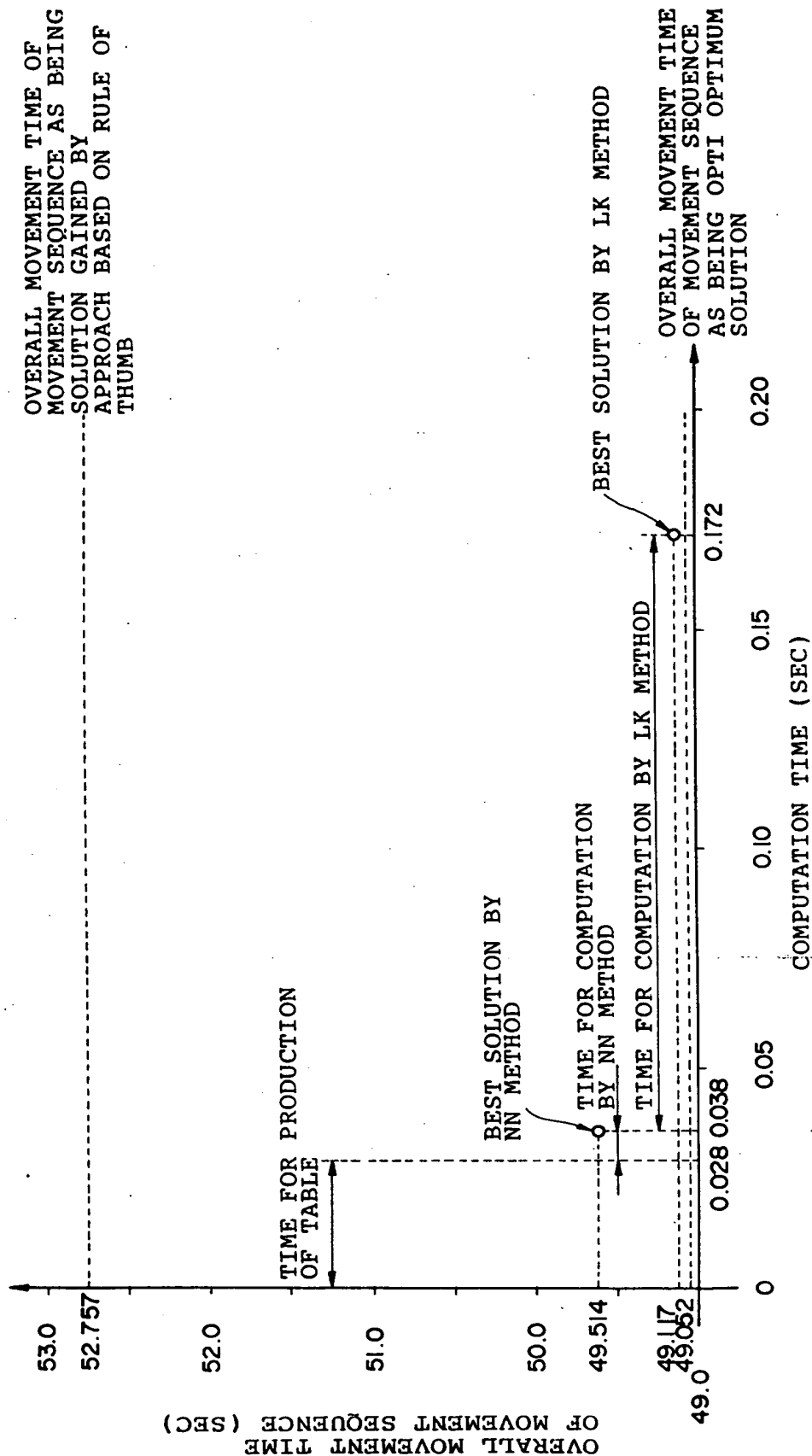


Fig. 24

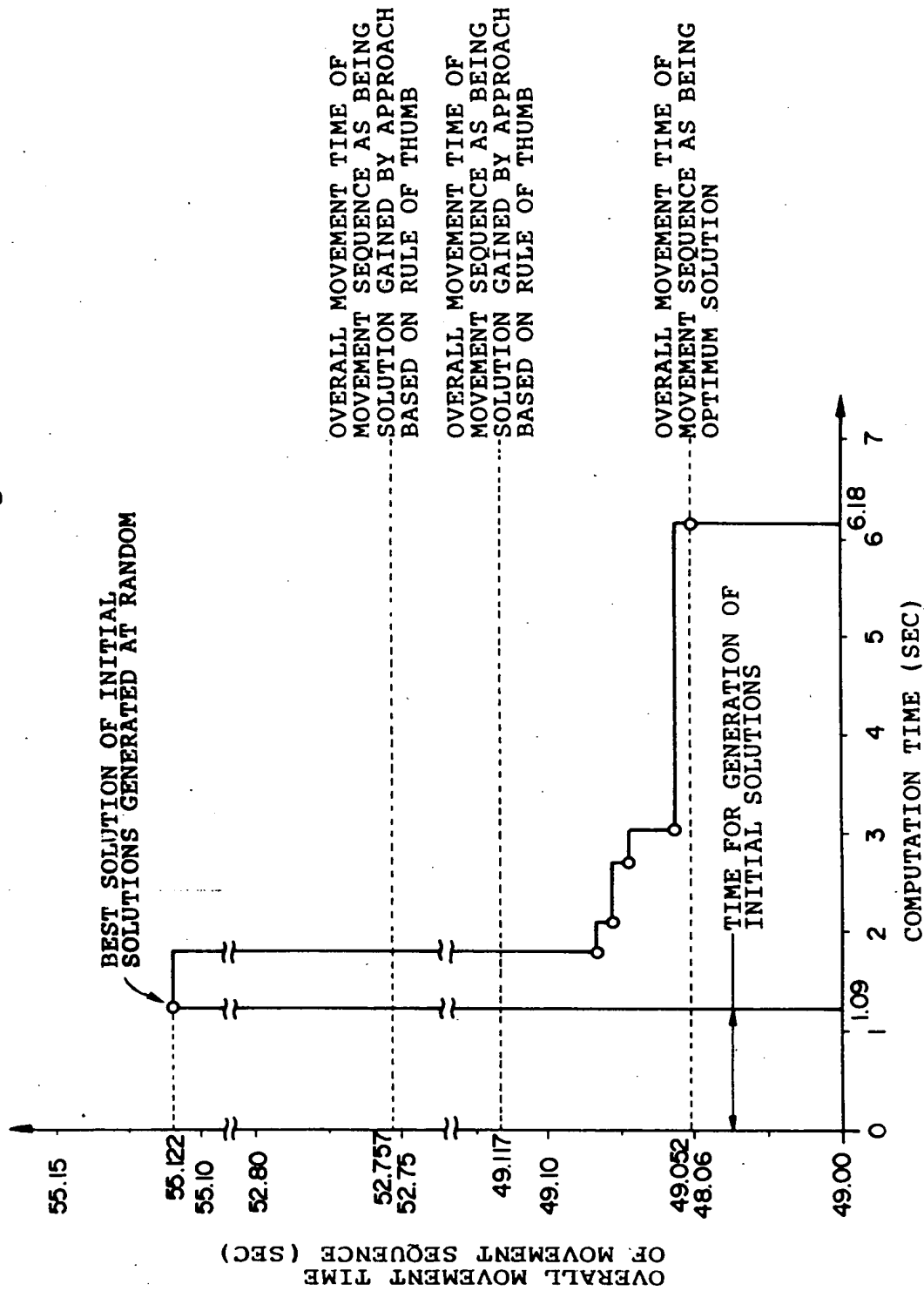
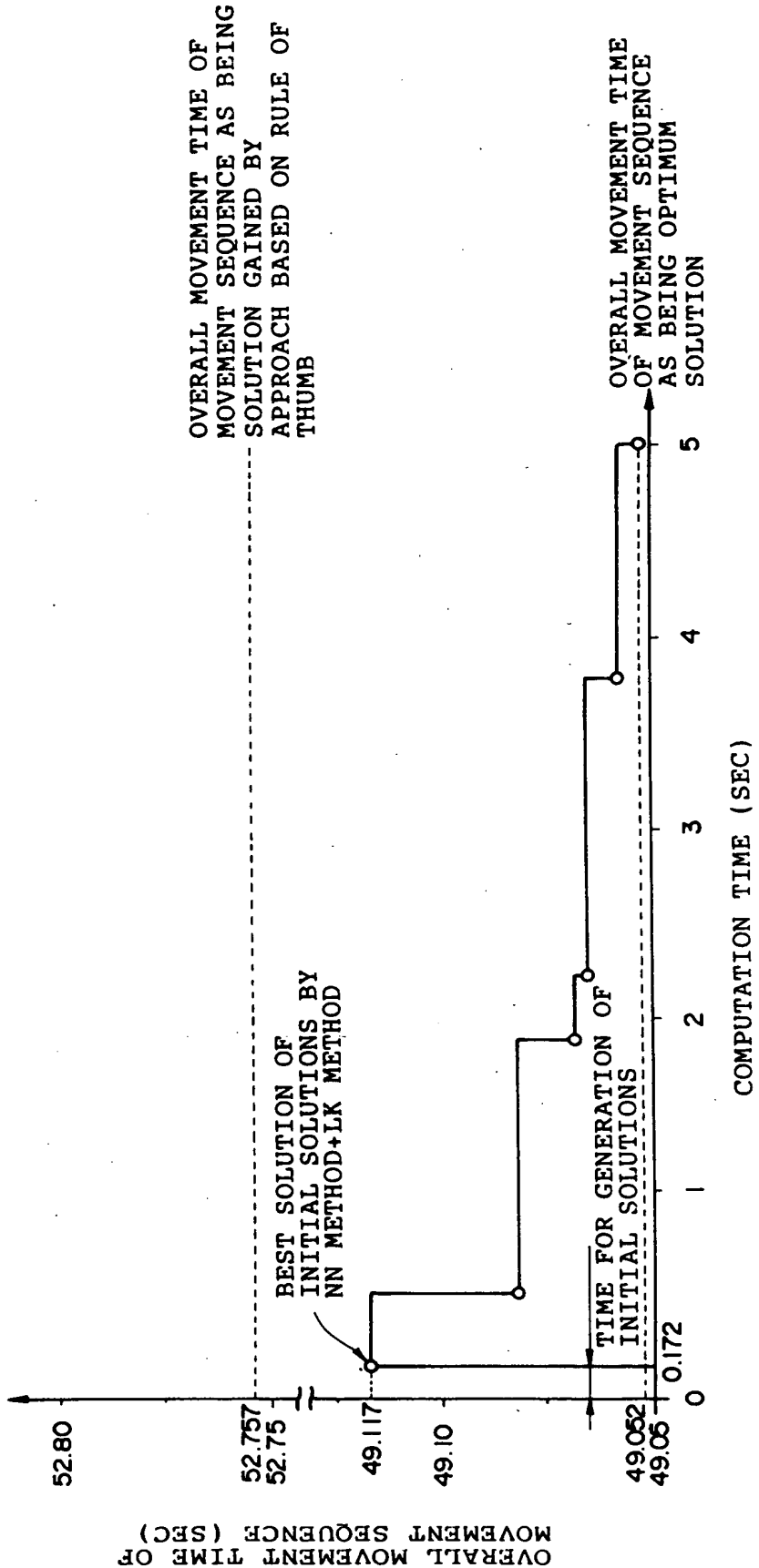


TABLE 20-5000660

Fig. 25



Title: METHOD OF DETERMINING MOVEMENT SEQUENCE, ALIGNMENT APPARATUS, METHOD AND APPARATUS OF DESIGNING OPTICAL SYSTEM, AND MEDIUM IN WHICH PROGRAM REALIZING THE DESIGNING METHOD
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Fig. 26

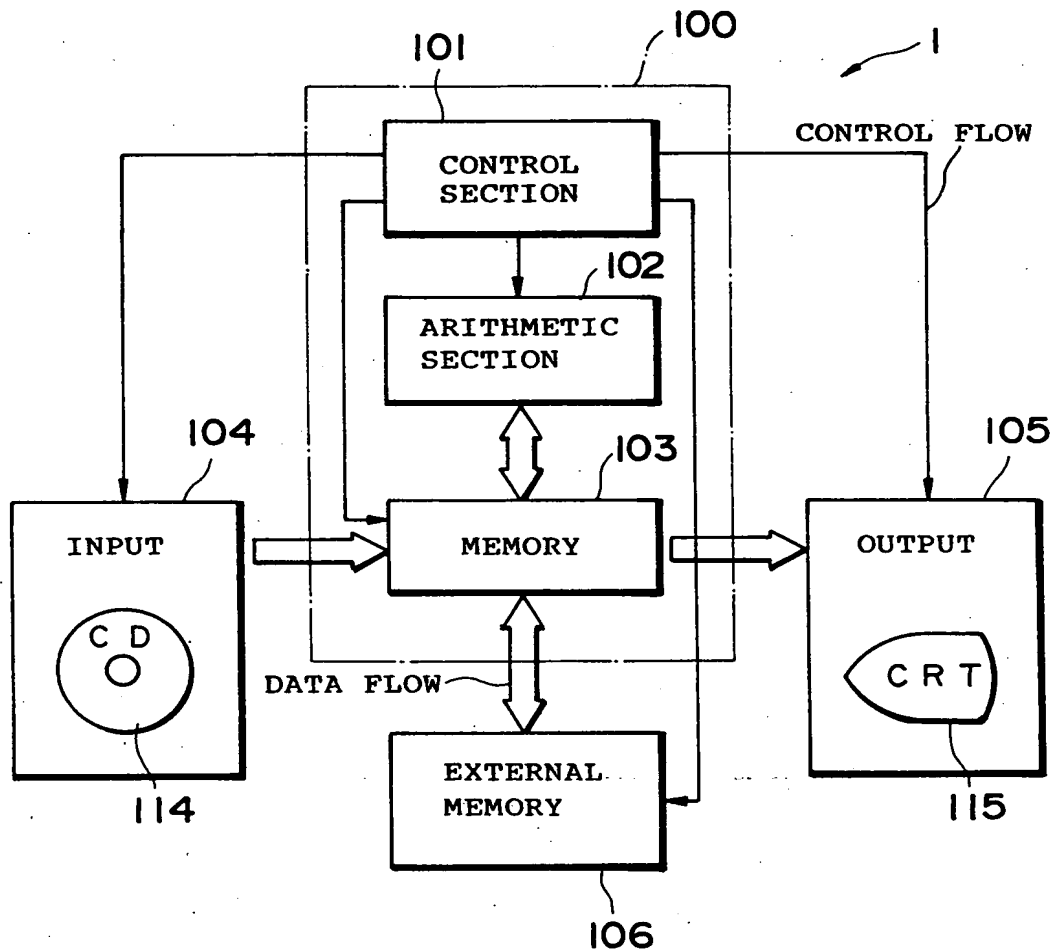


Fig. 27

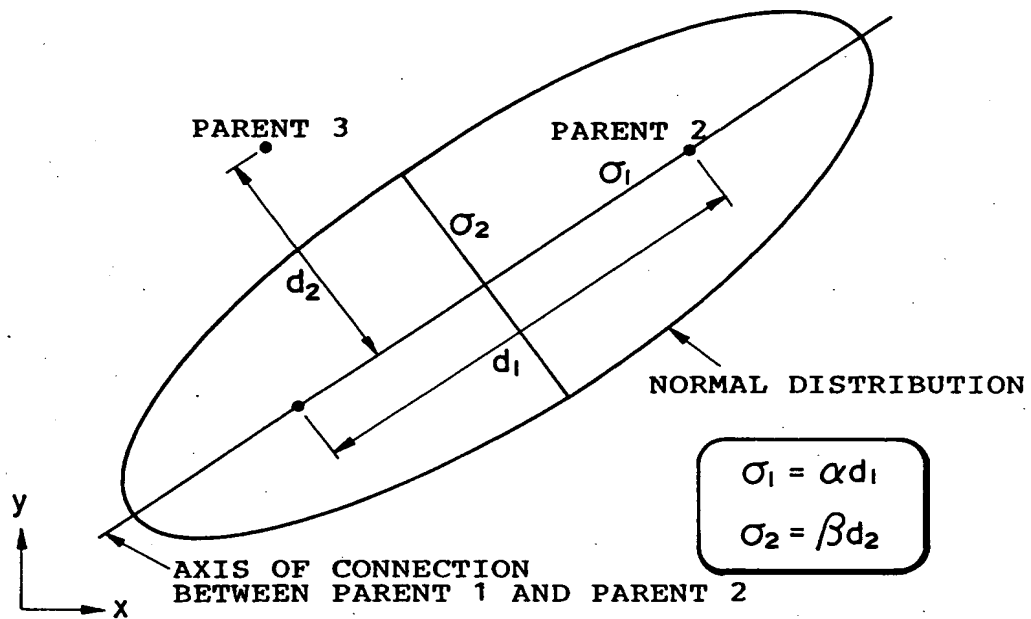


Fig. 28

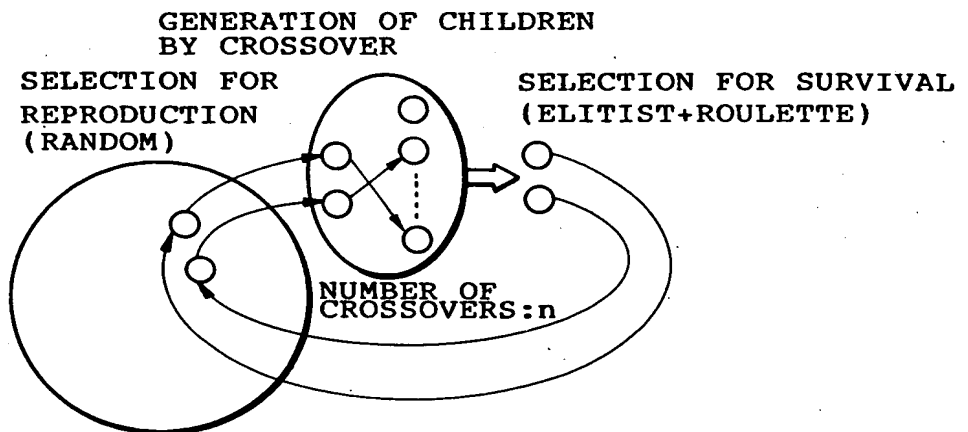


Fig. 29

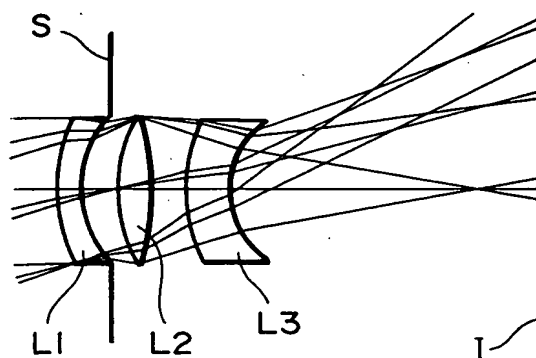
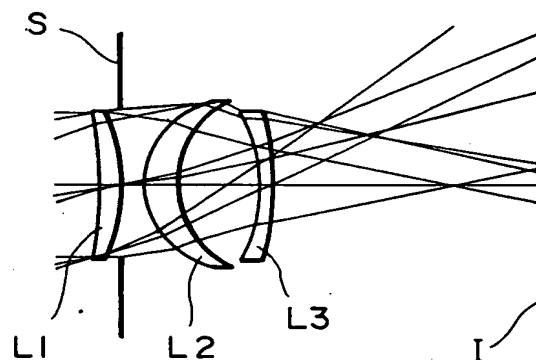


Fig. 30



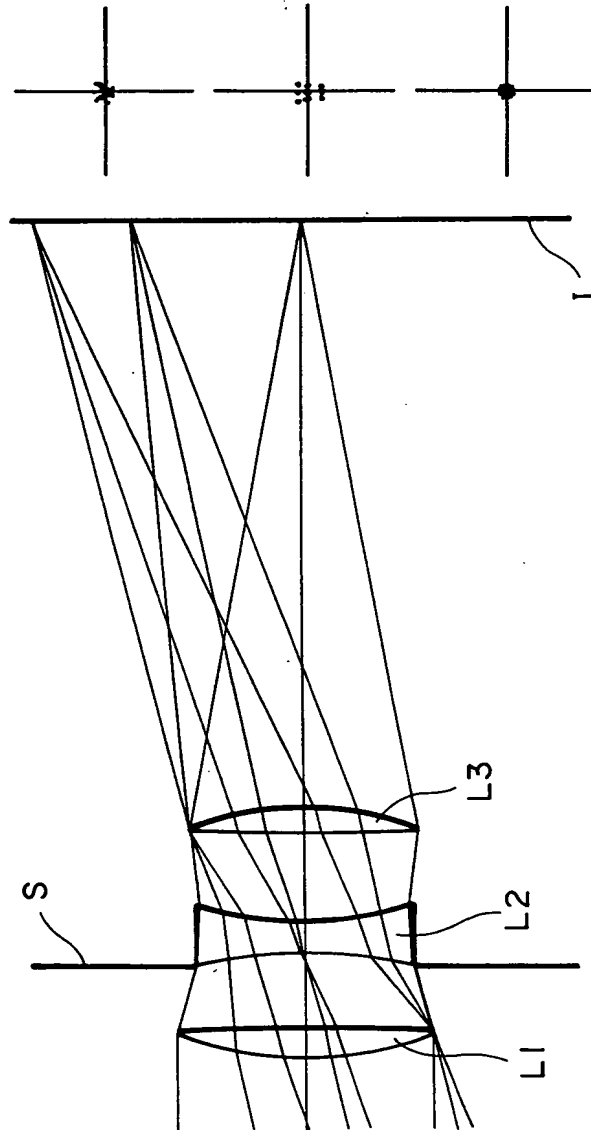


Fig. 31

FIG. 20-3100000

Fig.32

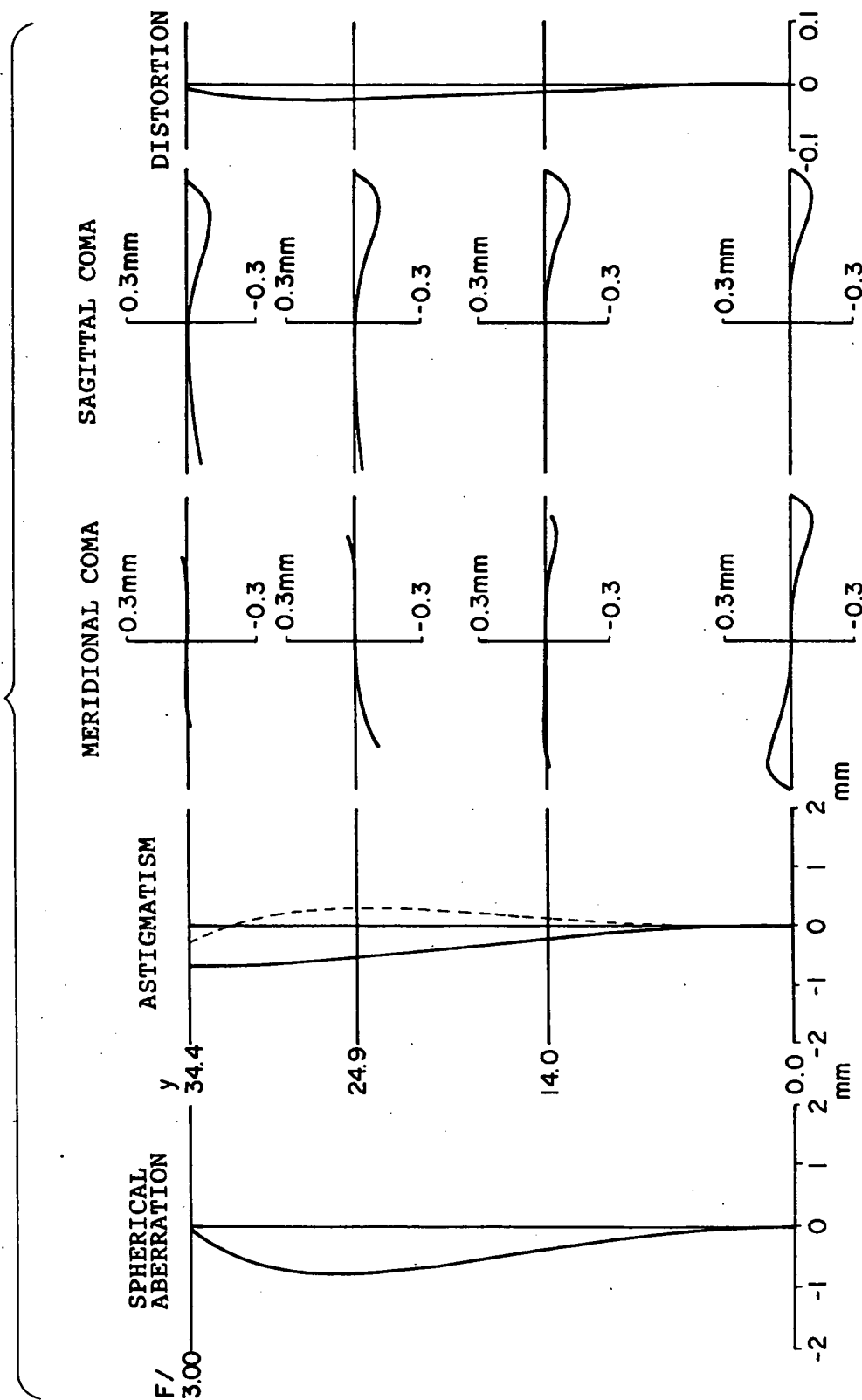
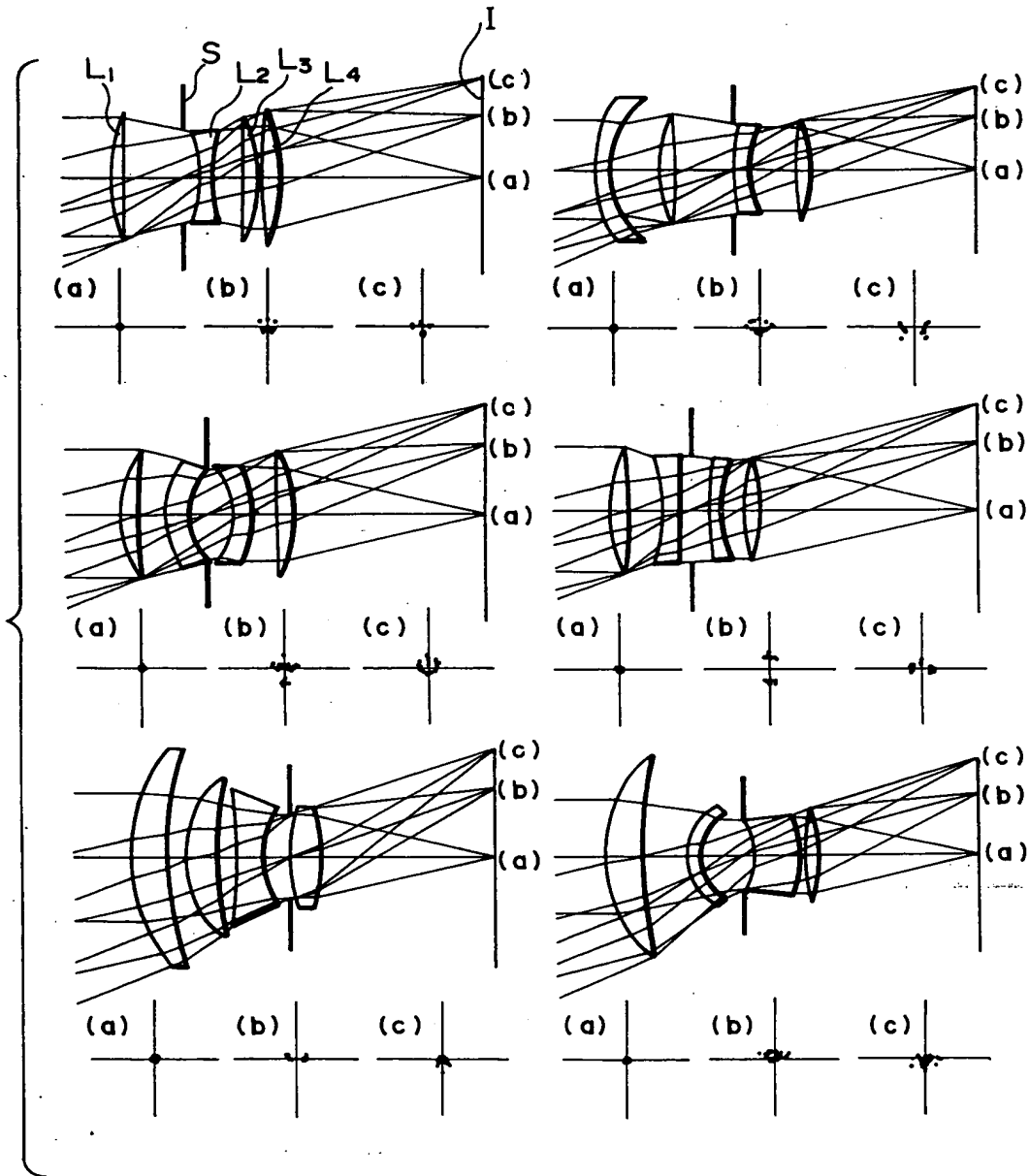


Fig. 33



061807-0137

Fig.34

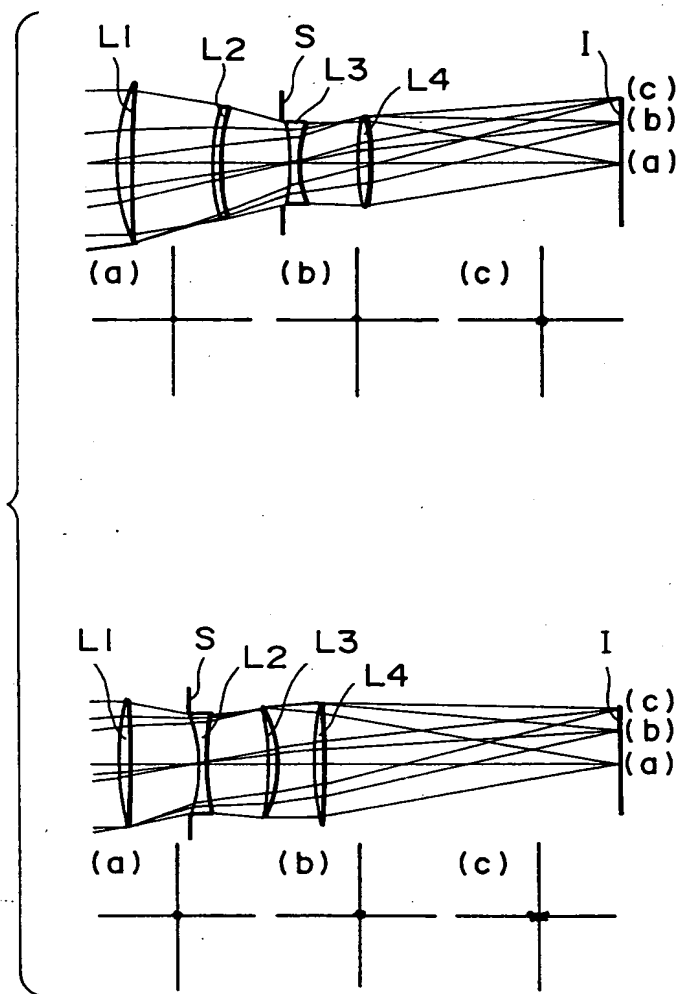


Fig. 35

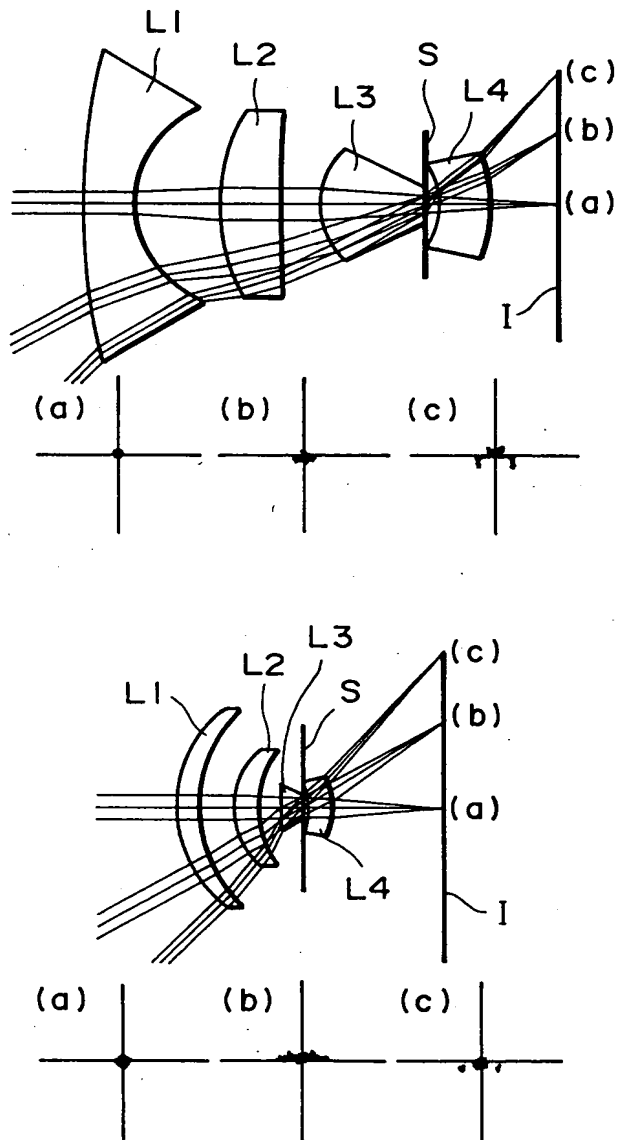


FIG. 35

Fig. 36

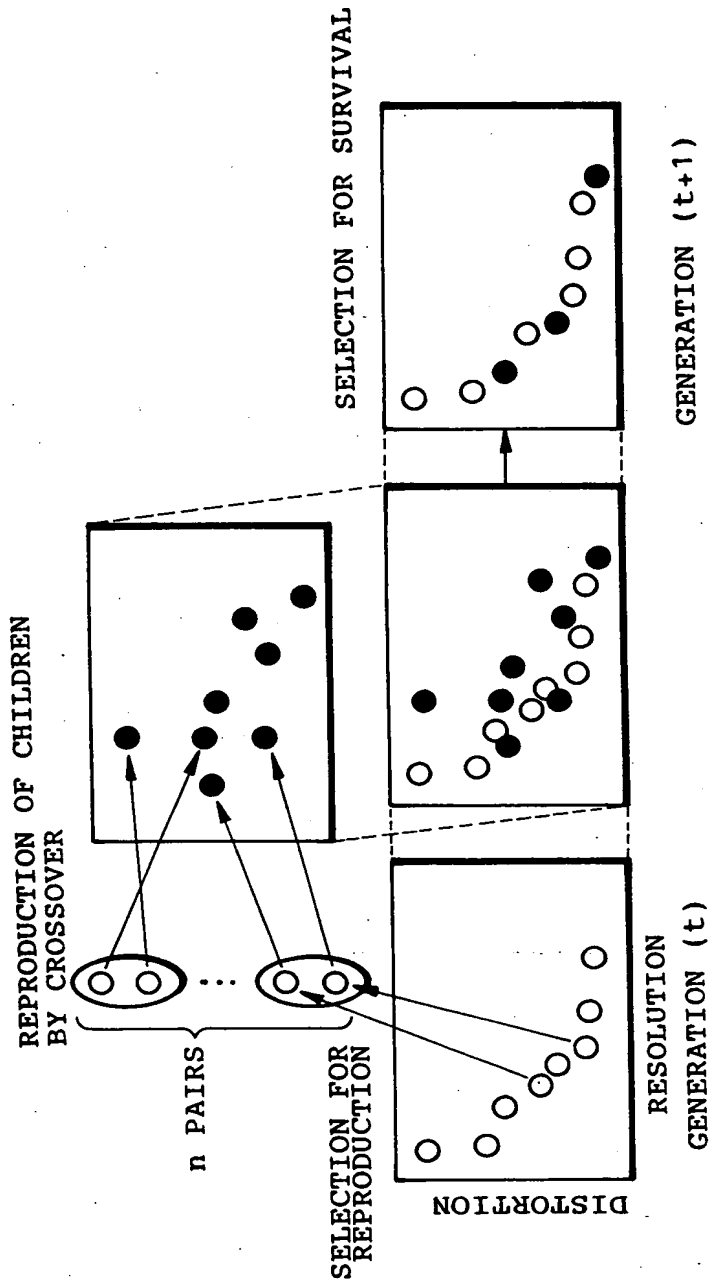


Fig. 37

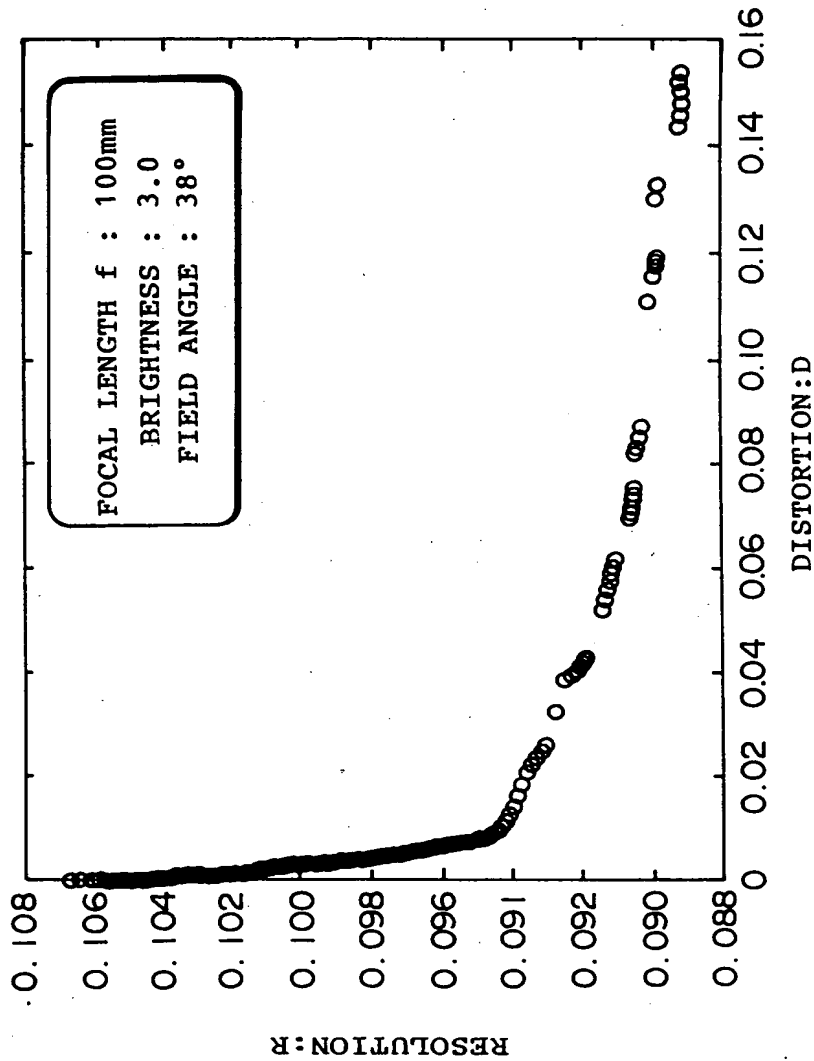


Fig. 38

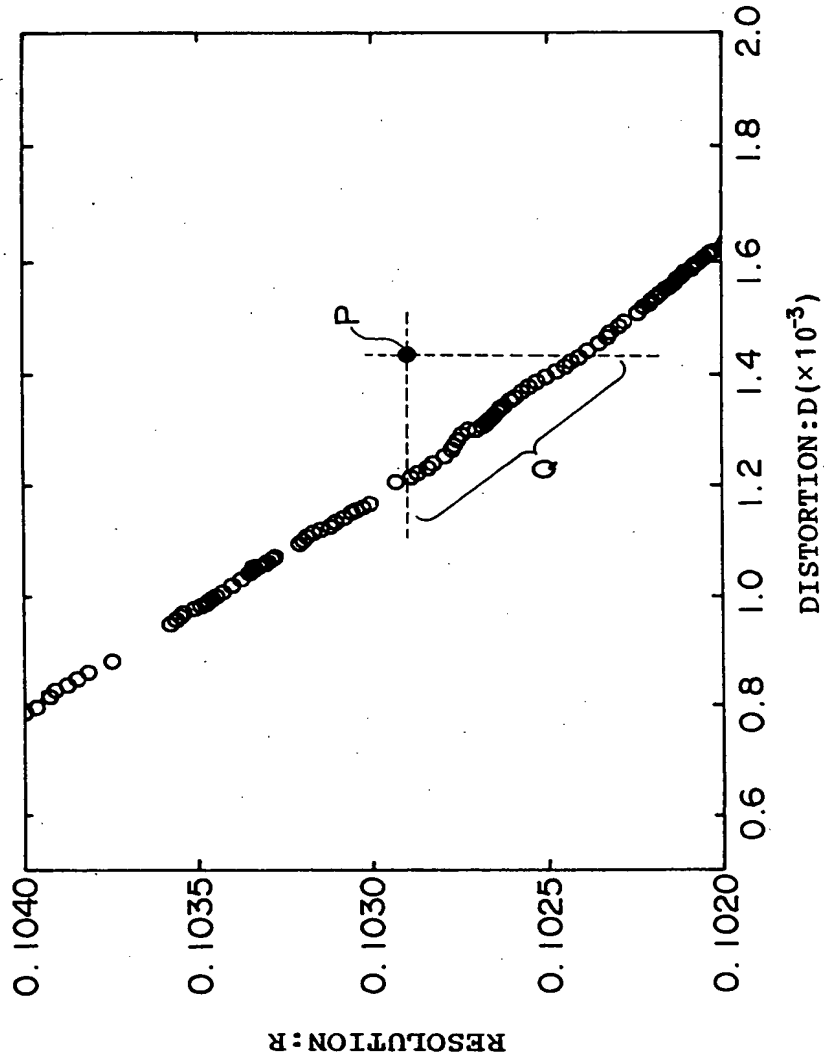


Fig. 39

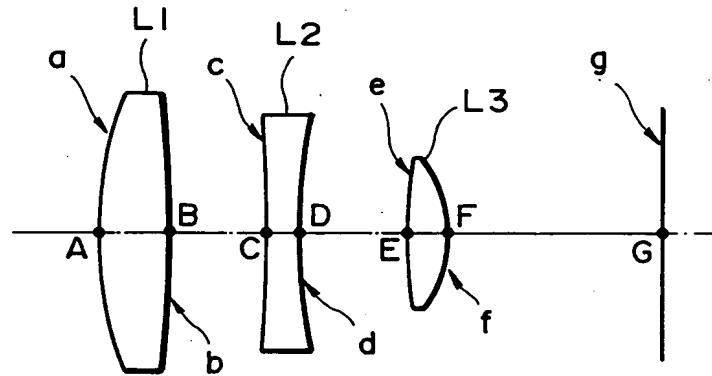


Fig. 41

GENE
REPRESENTATION:

a	b	c	d	e	d1	d2	d3	d4	d5
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Fig. 40

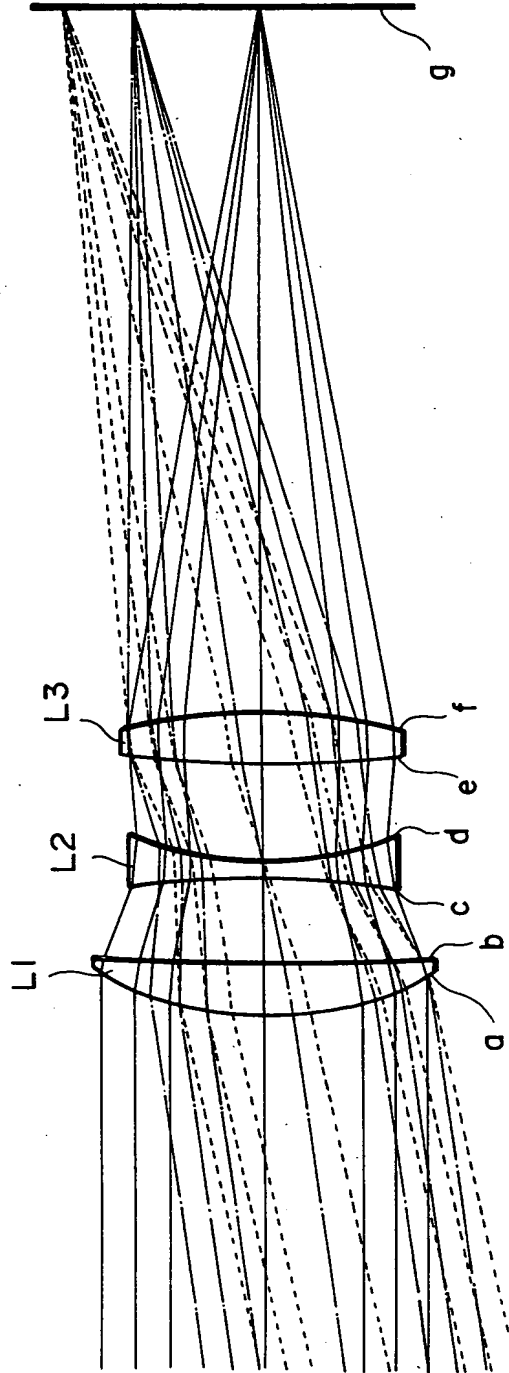


FIG. 40

Fig. 42

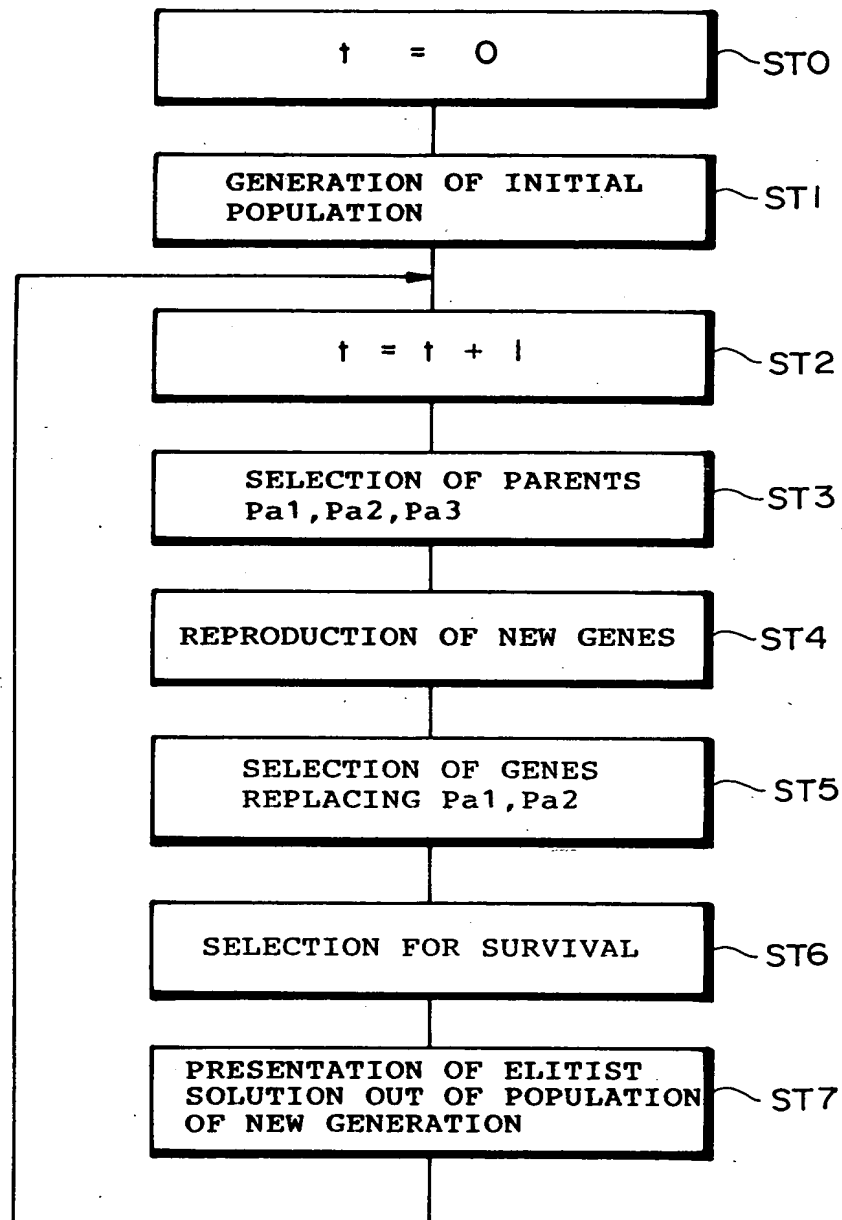
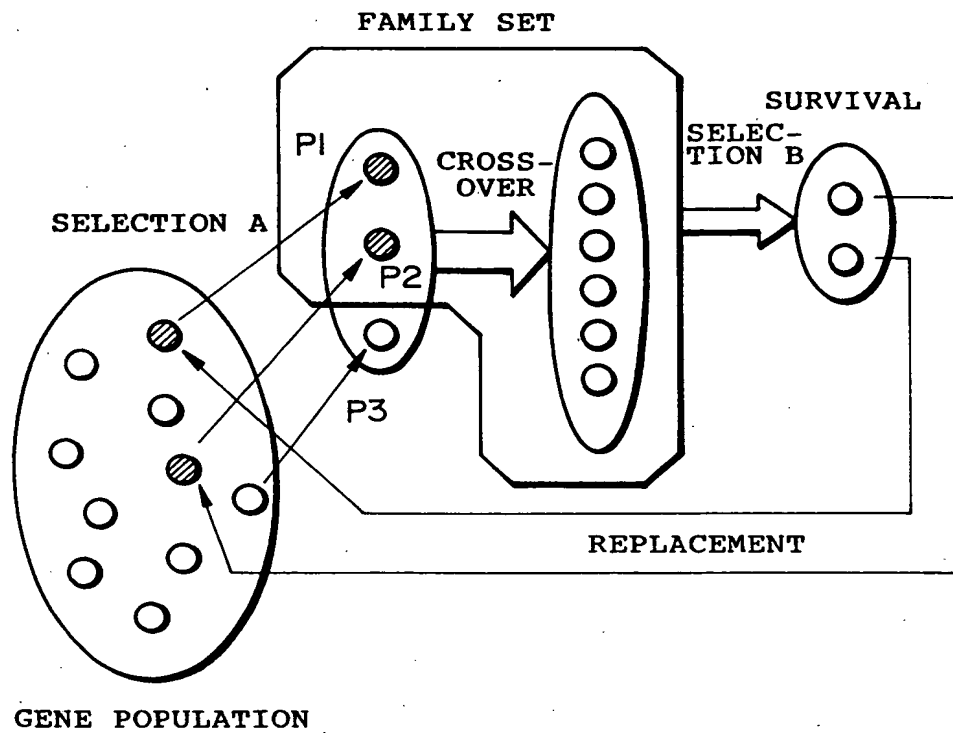


FIG. 42

Fig. 43



CONFIDENTIAL

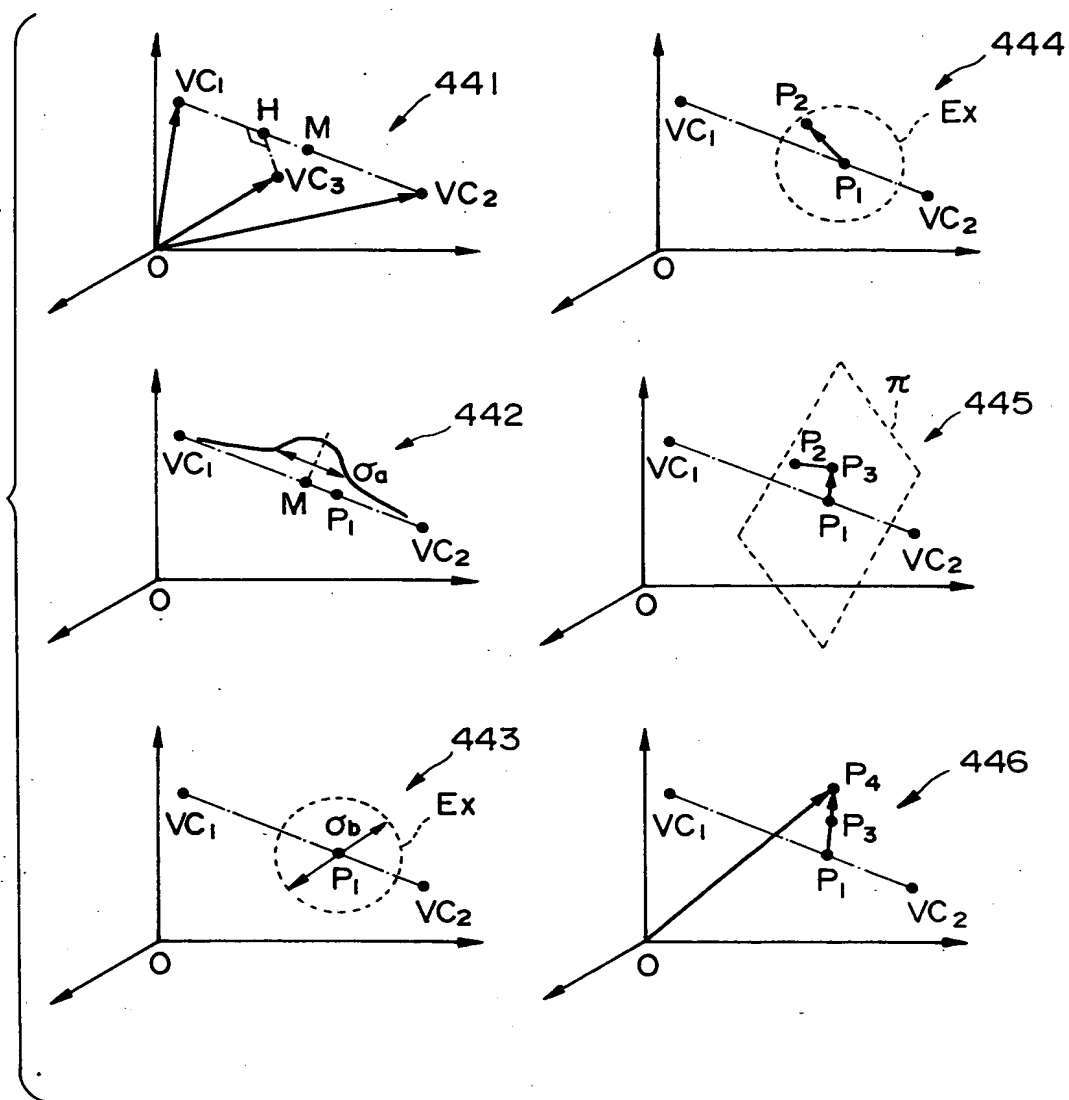
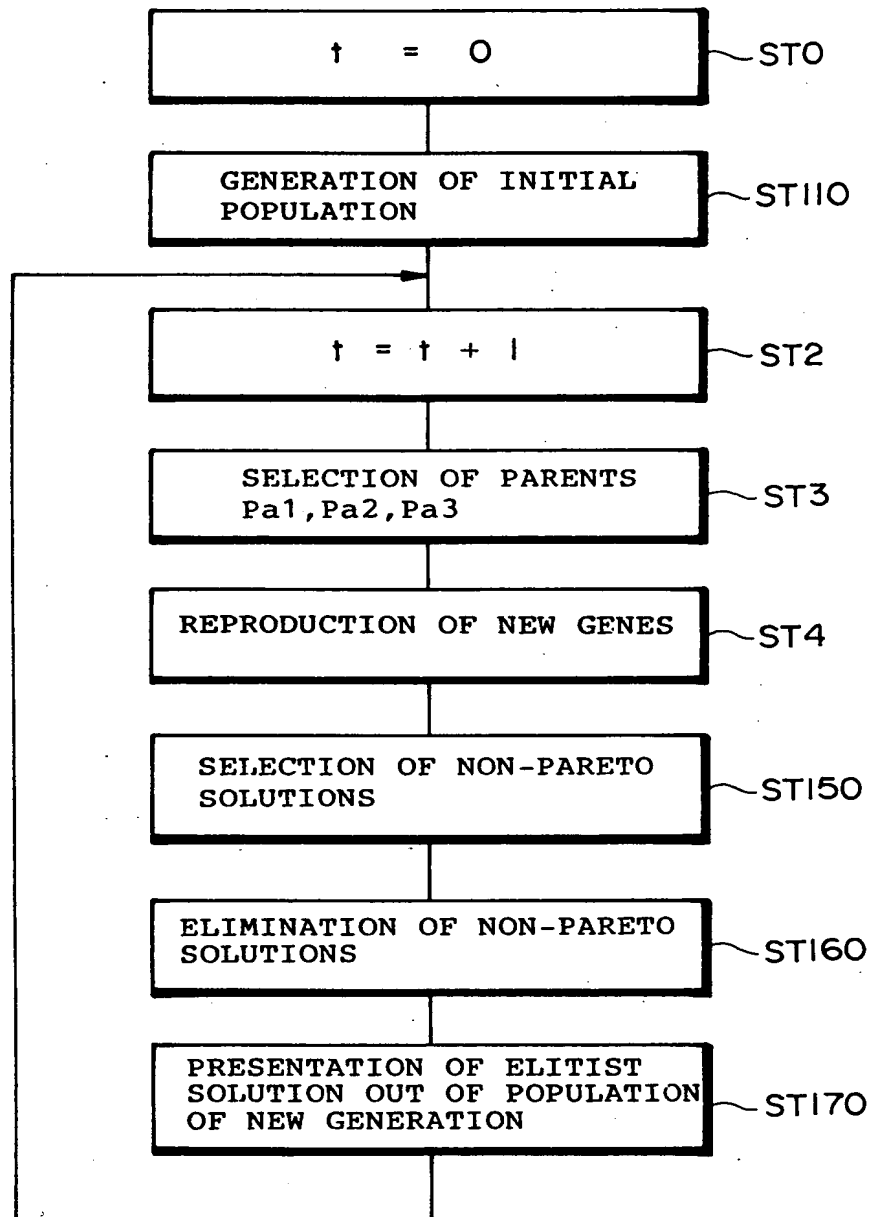
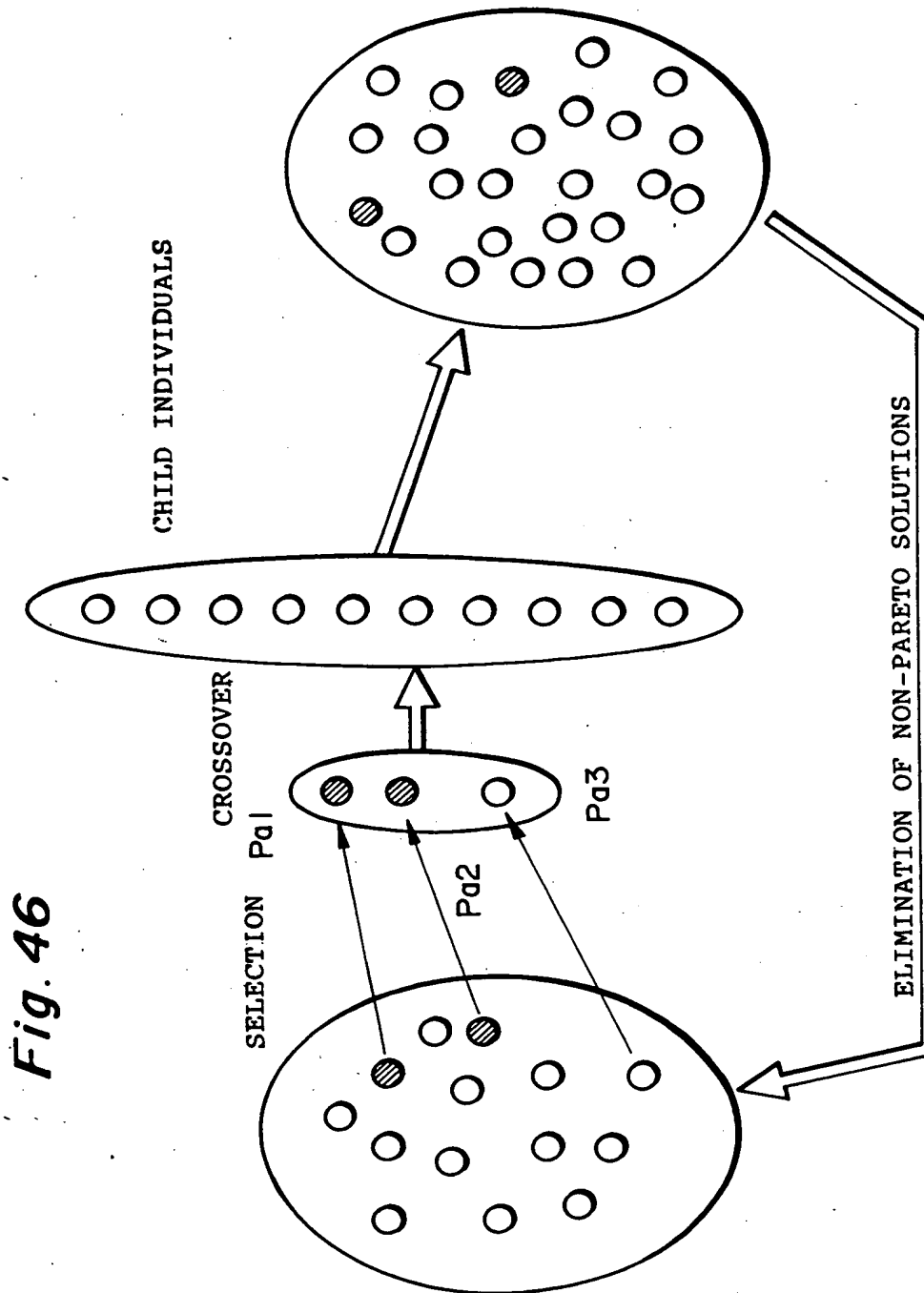


Fig. 45



0000046-070904



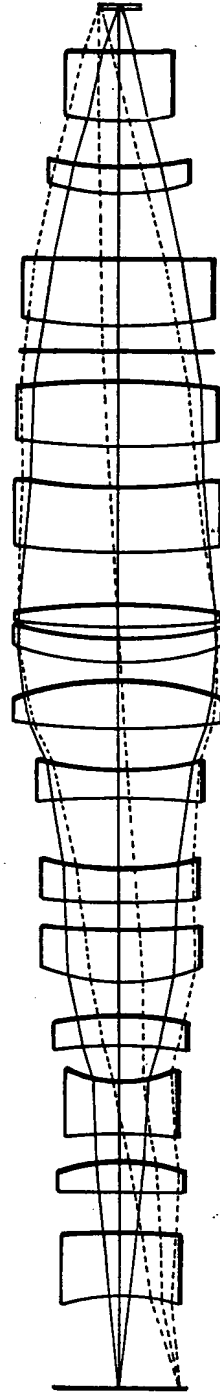
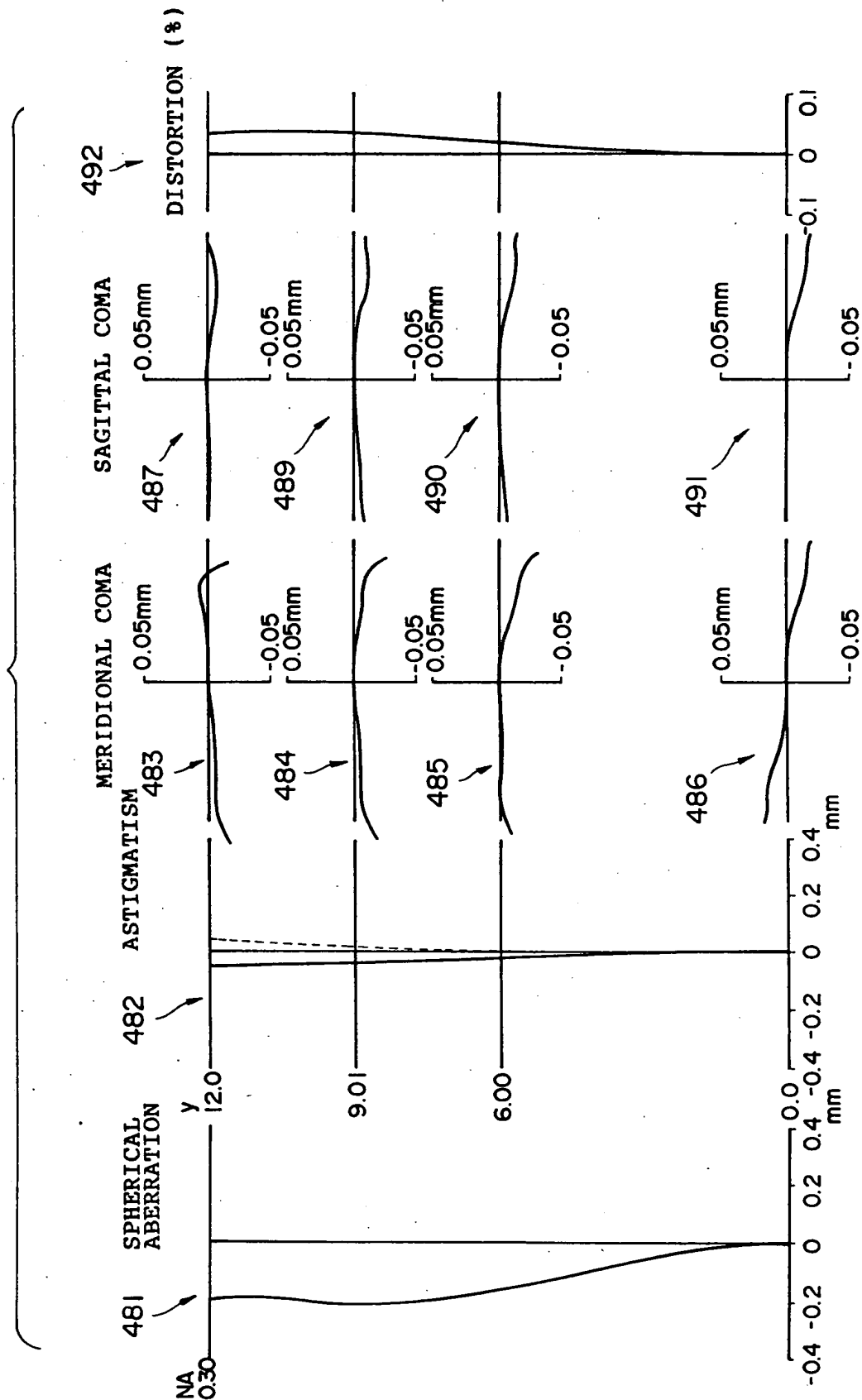


Fig. 47

100020-5700000

100020-900000

Fig. 48



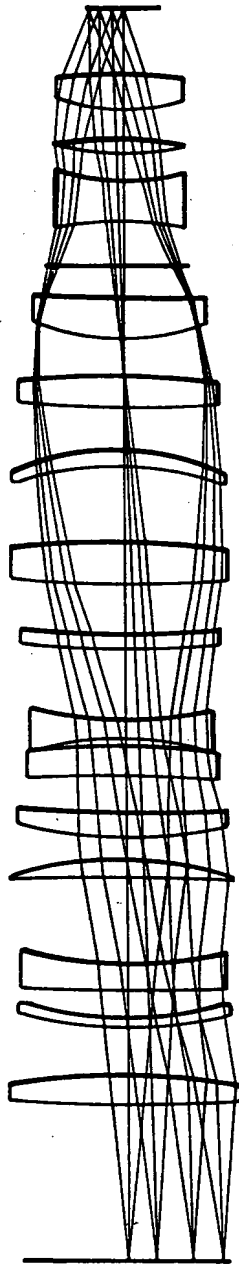


Fig. 49

FIG. 49